

The Power of Pulsed Light to Aid Decontamination of Food Conveyors



The food industry is all too familiar with food safety recalls. Many recalls result from the discovery of known pathogens in a product which can make consumers sick. This subjects the company to regulatory and commercial liability exposure, as well as requiring highly-visible product recalls. In spite of industrial efforts to reduce the risk, incidents of contamination persist, reinforcing the need for chemical-free processes.

Food is Only Half of the Equation

Keeping your food free from microbial contamination is paramount, which is why food processors work so hard to keep conveyor systems clean. Current methods including washing, steam cleaning and chemical sanitization are effective, but require the line to be shut down frequently, and for extended time periods to perform a sanitization cycle – a significant operating cost to food processors.

There is a Better Way to Decontaminate Conveyors

A growing number of food processors are choosing to incorporate XENON Pulsed Light systems into the sanitization regimen for their conveyors. With rapid pulses of high-energy UV light, microorganisms on food-contact surfaces are destroyed before they can grow and contaminate food products. These Pulsed Light systems can operate during production, providing continuous decontamination of the conveyors. This not only increases the level of protection, but may also result in full washdowns being required less frequently.

Pulsed Light decontaminates food surfaces as well.

Intense Pulsed Light has been found to be effective in the decontamination of the surfaces of many different varieties of food by several university studies, and has been documented in numerous publications. The FDA has endorsed its use for this purpose, and the number of foods that can benefit from Pulsed Light treatment continues to grow. Being a non-thermal process, Pulsed Light can kill microorganisms while preserving nutrients. It can do so without affecting the look, feel, and color of the food, unlike chemical, radiation, or heat treatments.





The Z-2000 with Wash Down Lamp Housing

The XENON Z-1000 offers food processors the ability to supplement existing conveyor decontamination procedures with the most flexible, effective Pulsed Light system in the industry. The food-grade wash-down lamp housings are constructed of stainless steel, designed to meet IP67 and NEMA 4X standards*. The lamp unit easily bolts onto existing conveyor systems, and can be positioned so as not to interfere with food moving on the belt.

*In a test designed to simulate aspects of IP67 immersion protocol, the wash-down housing window was determined to be waterproof to 0.16-meters. In a test designed to simulate aspects of NEMA 4X and IP66 wash-down protocol, the housing window is approved for the normal activities associated with a high-pressure wash-down utilizing up to 1200psi at a distance of 3-meters from the spray nozzle to enclosure seals.

The Benefits of Pulsed Light for Conveyor Decontamination

- **Continuously decontaminates** food contact surfaces
- **Chemical-free** process
- **Deactivates microorganisms** in seconds, with no residuals
- **Supplements** traditional wash-down methods
- **FDA approved** for use with food
- **High germicidal power**

Wash-Down Ready Housings to Suit Your Application

Sized for a range of applications

Available in arc lengths of 16-inch (41cm), 20-inch (51cm), 31-inch (79cm), or speak to our applications team about a custom size requirement.

Meet the treatment needs for the environment and application

Choose up to two lamp housings paired with a single controller.

Extra power where it's needed

Each lamp housing can be configured with a single or double lamp based on your application and/or conveyor speed.

Talk to XENON today!

XENON is the leader in Pulsed Light technology. With thousands of its systems operating on production lines around the world, and over 50 years of experience in Pulsed Light technology, XENON has earned its reputation as the Pulsed Light Experts.

To learn more visit www.xenoncorp.com.



The Pulsed Light Experts

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