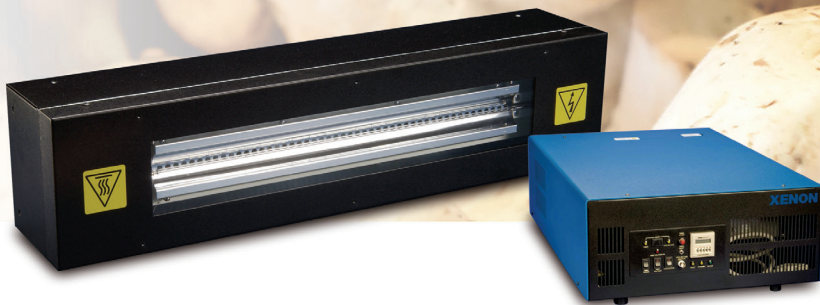


The Power of the Sun



Use XENON's Pulsed Light to Boost Vitamin D in Mushrooms.

The USDA has reported* that exposure to light causes mushrooms to increase Vitamin D production – boosting their nutritional value and giving growers the opportunity to gain a competitive edge in today's health-conscious marketplace.

XENON Pulsed Light offers the industry's fastest, most effective way to enhance Vitamin D in mushrooms.

Why XENON is the right choice

Some mushroom growers have tried continuous mercury light to spur Vitamin D growth. But those lights contain mercury and require long exposure times of up to 20 minutes. XENON's lamps, on the other hand, use patented Pulsed Light technology to deliver a high burst of light that works in just seconds.

- You save energy costs and keep your processing lines moving.
- XENON Pulsed Light come closer to duplicating real sunlight.
- They contain no mercury so they're environmentally safe.

Give your mushrooms an advantage on the store shelf – with XENON!

The Advantages of Vitamin D

Research shows that Vitamin D improves bone health and reduces the risk of various cancers and diabetes, among other benefits.

Mushrooms are the only non-animal food that can provide Vitamin D, but usually only in small amounts. When exposed to pulsed light, mushrooms increase Vitamin D production to over 100% of a person's daily requirements!



* "JOURNAL of AGRICULTURE and FOOD SCIENCE," United States Department of Agriculture, June 2008



A closer look at XENON Pulsed Light

Xenon's Pulsed Light lamps provide everything you need to rapidly increase Vitamin D levels in your fresh mushrooms while on your processing lines. The XENON RC-900 system consists of a controller, and a separate lamp housing with a 16-inch lamp for easy mounting over the conveyor line. The lamp housing is positioned over your mushroom conveyor line and delivers high-energy light pulses.

XENON's RC-900 system can be ordered with either a single or dual 16-inch lamp housing to adapt to your processing line requirements.

What the research shows

Robert Beelman, Professor of Food Science at Pennsylvania State University, has conducted testing on a variety of mushrooms using XENON's 16-inch lamp. He reports that an exposure to Pulsed Light of less than 2 seconds increased Vitamin D to over 100% of the Recommended Daily Allowance.

Talk to XENON today

XENON is a pioneer in Pulsed Light technology. Our unique, patented lamps are used in a wide range of industries and applications. XENON's applications engineers are available to help you customize a solution for your mushroom production. To learn more, visit www.xenoncorp.com/mushrooms, or contact our offices listed below.

Case Study Snapshot

Challenge: A leading international food producer wanted to boost Vitamin D in its fresh mushrooms prior to final packaging, but did not want to use continuous mercury UV light systems. In-line processing with minimum handling was a major consideration to keep costs down.

Solution: The company incorporated XENON's Pulsed Light lamps into its conveyor line for Portobello mushrooms.

Results: By safely exposing mushrooms to less than 2 seconds of pulsed light, the producer has been able to increase Vitamin D content of Portobello mushrooms to over 100% of the RDA (Recommended Daily Allowance).



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