

The Power of the Sun



Use Xenon's Pulsed Lamps 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's Pulsed Lamps offer the industry's fastest, most effective way to enhance Vitamin D in mushrooms.

Why Xenon's lamps are 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 a 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's Pulsed Lamps 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's lamps!

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's Pulsed Lamps

Xenon's Pulsed Lamps provide everything you need to rapidly increase Vitamin D levels in your fresh mushrooms while on your processing lines. The Xenon model RC-847 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 model RC-847 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 Corporation 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 contact our offices listed below.

Contact Xenon Corporation to learn more about these products.

ORDERING GUIDE

When ordering, please use the following part numbers:

Model RC-847	Controller
Model LH-840	16" Lamp Housing

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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