

UV-FACTS  
ARTICLE SERIES  
January 2026

## UVLON® - Advanced Protection for UV-C Lamps

### WHAT IT IS, THE BENEFITS IT OFFERS, AND WHY IT WILL BECOME A SAFETY AND QUALITY STANDARD FOR UV-C SYSTEMS

In the food, pharmaceutical and medical sectors—and more broadly in air treatment—UV-C technology has become a key solution for ensuring process safety and hygiene.

Designed to become the new standard for UV-C applications, **UVLON®** is a heat-shrink protective sleeve applied directly to the glass of our UV-C lamps, combining strength, reliability and performance.

In this article, we explain what **UVLON®** is and the benefits it delivers.



### WHAT IS UVLON®

UVLON® is a protective sleeve made of FEP (Fluorinated Ethylene Propylene), developed and registered by Light Progress for UV-C lamp protection.

FEP is an inert, transparent fluoropolymer **approved for food contact according to FDA regulations**, making it suitable for applications in the food, pharmaceutical and medical sectors.

The sleeve allows **high UV-C wavelength transmission**, preserving treatment effectiveness without compromising system safety.

The FEP coating makes lamps **safer to handle**, allowing bare-hand contact during installation and maintenance, while providing a smooth surface that is **easy to clean and resistant to aggressive and chemically demanding environments**.

UVLON® also protects lamps from **thermal fluctuations**, particularly low temperatures, helping maintain optimal performance and improving overall operational reliability.

To ensure uniform and controlled application, Light Progress has developed a **proprietary automated machine** that performs fully mechanized and precise heat-shrinking. This exclusive process increases protection robustness and makes Light Progress lamps a global benchmark for reliability and durability.

In UV-C systems, preventing lamp breakage is not optional—it is a prerequisite for safe operation. For this reason, starting in **2026**, **UVLON® becomes the standard**: lamp protection is no longer an option, but an integral part of UV-C systems.

UVLON® is a special thermo-shrink sleeve made of FEP (Fluorinated Ethylene Propylene), designed and registered as a Light Progress trademark for its UV solutions.

Thanks to its unique properties, it allows up to 85% UV-C light penetration through its surface, maintaining transparency and treatment effectiveness, while ensuring the highest levels of protection and safety.

## THE BENEFITS – ROI, RELIABILITY AND COMPLIANCE

### Lower costs, greater continuity

By protecting the lamp, UVLON® reduces breakage, replacements and downtime. The result is longer lamp life and an immediate return on investment.

### Uninterrupted production

In the event of breakage, the sleeve contains glass fragments and prevents contamination, rejects and line shutdowns—an essential requirement in regulated sectors such as food, pharmaceutical, medical and HVAC.

### Compliance and brand protection

UVLON® supports compliance with international standards (FDA, IP44) and reduces the risk of non-compliance, product recalls and legal disputes, directly protecting brand reputation.

### Reliable performance in harsh environments

The FEP sleeve resists wear, aggressive chemicals and demanding operating conditions, ensuring consistent performance and reducing unplanned maintenance.

Reparto	Beneficio principale	Impatto sul ROI
 <b>ACQUISTI</b>	Investimento unico che riduce costi di sostituzione e gestione	Budget ottimizzato, riduzione TCO (Total Cost of Ownership)
 <b>MANUTENZIONE</b>	Meno guasti, meno interventi straordinari e maggiore affidabilità del sistema	Minori fermi impianto, risparmio su manodopera e ricambi
 <b>QARA</b>	Conformità a standard e normative (FDA, IP44) e riduzione dei rischi di contaminazione	Prevenzione di richiami, tutela del brand, riduzione dei rischi legali e

## AN OPTION TODAY, A STANDARD TOMORROW



At present, UVLON® is offered as an optional accessory, available together with UV systems. However, for several applications in the food, pharmaceutical, medical, and HVAC/air conditioning sectors, Light Progress already supplies UV-C lamps with UVLON® protection as the default configuration.

From 2026, this option will **become standard**: UVLON® will no longer be an accessory, but an essential and integrated component of our solutions in the food, pharmaceutical, medical, and HVAC sectors.

## REGULATORY AND OPERATIONAL RESPONSIBILITY

UVLON® makes UV-C lamps **safer to handle, install and clean**. Unlike bare glass, the protective sleeve allows bare-hand handling and effective cleaning, even with chemical agents.

For machine manufacturers, this means more robust and easier-to-integrate solutions.

For end users, it means greater safety, reduced maintenance and higher operational reliability.

## ACCURACY IN PERFORMANCE CALCULATIONS

It is important to note that our microbial inactivation calculations and UV-C system performance software **already take the use of UVLON® into account**.

As a result, efficacy values remain unchanged and fully reliable.

**Integrating UVLON® as a standard adds value and eliminates risk.**

[Download the official UVLON® declaration: a signed reference document providing certified and reliable information.](#)

For further technical details, personalized consultancy, or to speak directly with our technical department, please contact us at [info@lightprogress.it](mailto:info@lightprogress.it)

We will be glad to support you in choosing the solution that best fits your needs.