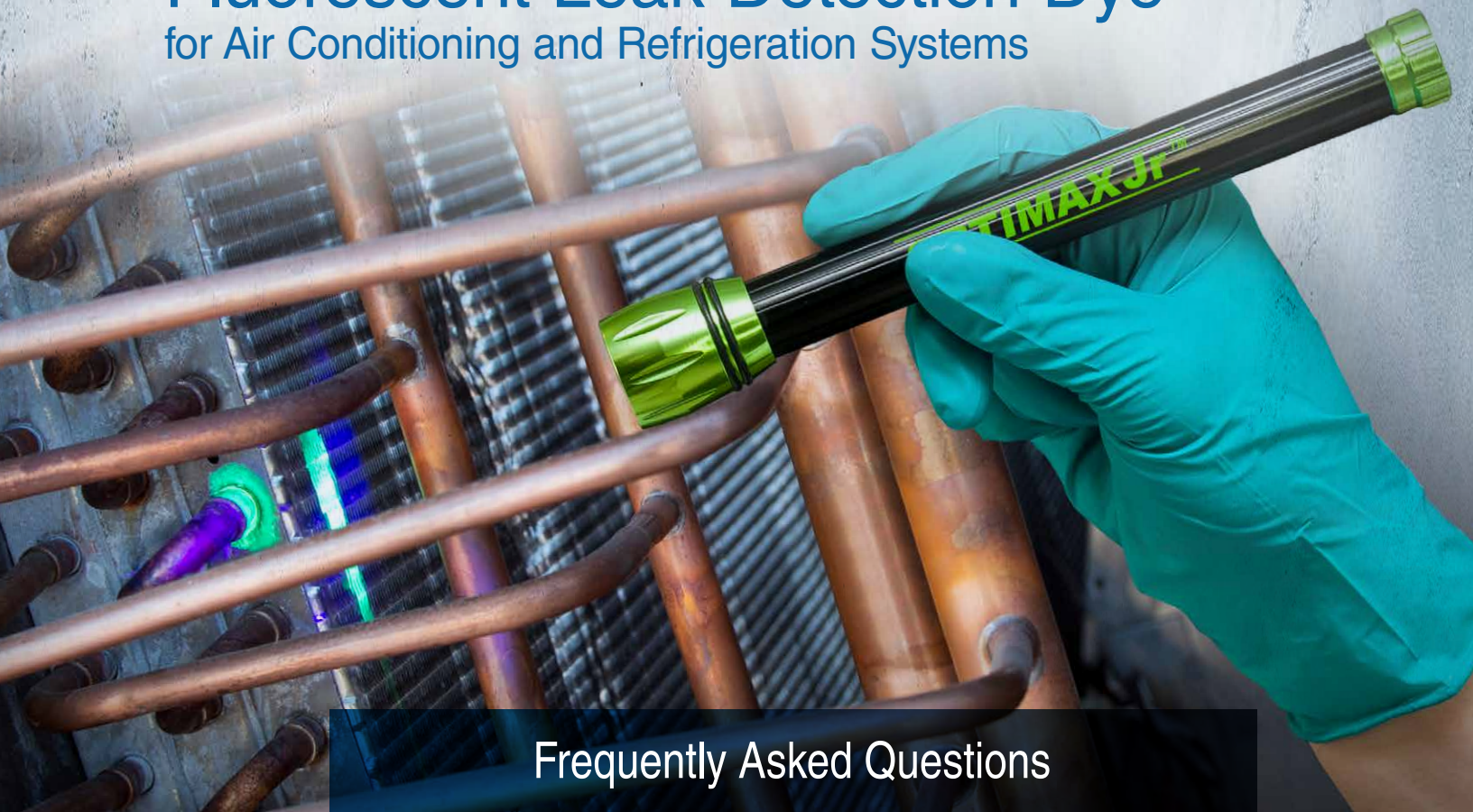


# FAQs

SPECTROLINE®  
HVAC/R

K11  
MAXIMA PERFORMANCE

## Fluorescent Leak Detection Dye for Air Conditioning and Refrigeration Systems



### Frequently Asked Questions

#### Q. What is Fluorescent Leak Detection?

A. Spectronics Corporation invented fluorescent leak detection in 1955, this technology is used by HVAC professionals worldwide to locate fluid leaks in air conditioning and refrigeration systems. This process is simple and effective requiring nothing more than fluorescent dye and a UV lamp.

#### Q. How does Fluorescent Leak Detection work?

A. First, add dye to the system and let it circulate. The dye/oil mixture escapes with the refrigerant and collects at all leak sites. Next scan the system with an ultraviolet lamp and see all leaks glow brilliantly!

#### Q. I am nervous about voiding my equipment's warranty if I add dye. What should I consider when choosing a dye?

A. Spectrolite dyes are the only highly concentrated dyes in the industry that are approved by manufacturers, co-solvent free, NSF certified and can remain safely in systems for its lifetime. **Spectrolite is the only manufacturer** with OEM approval from companies such as Copeland, Bristol, Whirlpool, Carrier, Embraco and many more.

#### Q. How much dye should be added to the system?

A. 4 ml of dye is enough to treat 2 L of lubricant, 6 kg of refrigerant or 5 tons of cooling capacity. A complete dosage chart is included with all our dyes.

#### Q. What types of leaks can be found using Spectrolite products?

A. All leaks, including leaks as small as 3 ml per year and intermittent leaks that only appear when the system is under pressure.

#### Q. Are Spectrolite AR-GLO® dyes compatible with all refrigerant and lubricants, including R-410a?

A. Yes. Spectrolite AR-GLO® fluorescent dye is a universal (POE) that works with all refrigerant gases and lubricants.

#### Q. Does the air conditioning system need to be evacuated or can you find leaks while it is running?

A. The system does not need to be evacuated. The dye can be used at any time the system is running.

#### Q. How long does it take to find a leak?

A. In a smaller system, you can find leaks in seconds. In larger systems, in supermarkets for example, it may take a few hours. Our recommendation is to inject Spectrolite UV dye when a new installation is performed. In this way, the technician can do a weekly or monthly leak detection inspection in seconds.



# Fluorescent Leak Detection Product Line

**SPECTROLINE®**  
HVAC/R

**K11**  
MÁXIMA PERFORMANCE

## BigEZ™ Dye Cartridge

Versatile, multi-dose dye cartridges. Injector easily overcomes system pressure. Add fluorescent dye with system off or running. Works in all AC&R systems, including high-pressure R-410a systems.

BigEZ Injection System



**BEZ-4/ECS**  
BigEZ Universal/POE  
Dye Cartridge  
118 ml (4 oz)

**CARTRIDGE TREATS UP TO:**  
Lubricant: 61 L (16 gal)  
Refrigerant: 181 kg (400 lbs)  
Cooling: 150 tons

## GLO-STICK® Dye Capsules

Convenient, mess-free, single-dose capsules. Add refrigerant and fluorescent dye in one simple step. Works in all AC&R systems, including high-pressure R-410a systems. *Capsules are available in 3 sizes/concentrations.* See the Spectroline HVAC Brochure for exact dosages.

GLO-STICK Dye Capsule System



**GS-101/ECS**  
Universal/POE Dye  
Cartridge

**CARTRIDGE TREATS UP TO:**  
Lubricant: 445 ml (15 oz)  
Refrigerant: 1.3 kg (2.9 lbs)



**GS-2/ECS**  
Universal/POE Dye  
Cartridge

**CARTRIDGE TREATS UP TO:**  
Lubricant: 1.6-3 L (1.7-3.2 qt)  
Refrigerant: 2.3-4.5 kg (5-9.9 lbs)



**GS-3/ECS**  
Universal/POE Dye  
Cartridge

**CARTRIDGE TREATS UP TO:**  
Lubricant: 3.1-7.6 L (3.3 qt-2 gal)  
Refrigerant: 4.6-11.3 kg (10-25 lbs)

## OPTIMAX Jr™ Leak Detection Flashlight

This mini flashlight is ultra-compact, lightweight yet powerful! Reveals even the smallest refrigerant leaks. Perfect for leak checking hard-to-reach places. Compatible with all leak detection dyes.

### OPX-500CS

**OPTIMAX Jr™ Compact and Cordless Blue Light LED Flashlight**

- ▶ Provides optimal fluorescent dye response and contrast
- ▶ 4 hours of continuous inspection time
- ▶ Works with all leak detection dyes
- ▶ Fluorescence-enhancing glasses (required)



**1.8** Range  
meters (6')

**3** AAA



Red "CS" part number suffix denotes full-color, hanging clamshell packaging

**SPECTRONICS**  
CORPORATION

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