

2021

SPECTROLINE[®]
LEAK DETECTION

FLUORESCENT
LEAK DETECTION AND SYSTEM ADDITIVES
FOR ALL **AC&R SYSTEMS**

PROFESSIONAL GRADE SOLUTIONS



Residential A/C



Commercial A/C



Refrigeration



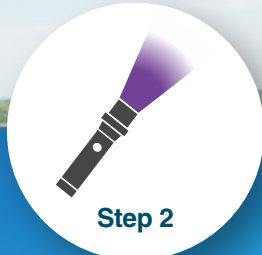
FLUORESCENT LEAK DETECTION TOOLS

Working for you **24/7** – Once **IN**, always **ON**.



Step 1

Add dye to the system & let it circulate



Step 2

Scan system with a Spectroline leak detection lamp and see any leaks glow brightly



Continuously circulating - working for you around the clock, **24/7** to quickly identify any future leaks

Have peace of mind you're using the **ultimate leak detection and preventative maintenance solution** in the industry!

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Inventors & Pioneers

For over 65 years, Spectronics Corporation has engineered the highest-quality, premium performance leak detection dyes and products.

As the **inventors of ultraviolet fluorescent leak detection**, we take pride in crafting the most superior leak detection dyes in the industry.

Spectronics Corporation is a family owned company with three generations of experience in delivering award-winning professional service and the industry's most powerful leak detection dyes, additives and lamps.

AR-GLO® 5 FLUORESCENT DYE



Fluoresces up to
10% Brighter*

Find AC&R leaks quicker & more easily



Improved Stability

More tolerant to extreme temperature range & moisture



Improved Shelf Life
150% Improvement

Up to 5 years



More Eco-Friendly

Formulated with safe raw materials & helps reduce refrigeration emissions into the atmosphere



Fully Miscible

High Quality, non-particulate and filtered down to 2 microns. Won't change the viscosity or lubricity of host fluid.



Exclusive Formula

From the inventors & most trusted name in fluorescent leak detection

Spectrolin® dyes **glow brighter** than the competition.



Shown under 400 nm light with amber glasses



EZ-Ject™ (Patented) Fluorescent Dye Injection System

The revolutionary way to add fluorescent dyes into air conditioning and refrigeration systems — without the use of additional refrigerant, manifold and additional hoses.

- ▶ No pouring and no refrigerant required for injection.
- ▶ One calibrated cartridge provides exact dosing for multiple systems. Easily overcomes system pressure.
- ▶ Inject dye with a turn of the handle.



S-M

**Small-Medium
Sized AC&R Systems**



**AR-GLO® 5E: Brighter
Performance Dye**

**UP TO
450
PSI**

**Works in all AC&R
systems, overcomes
system pressure**



**Co-Solvent
Free Dye**



EZ-Ject™ COMPLETE Fluorescent Leak Detection Kit

SPE-HVLEZE

- ▶ **SPE-HVL-CS** violet light LED leak detection lamp
- ▶ **SPE-EZ5E** (2) 0.5 oz (15 ml) universal/POE dye cartridges
- ▶ **RP-EZ-50** EZ-Ject™ dye injector assembly
- ▶ **RP-EZ-25** 8 in (20 cm) EZ-Ject™ hose assembly
- ▶ **RP-AD-410A** R-410a adapter/purge fitting

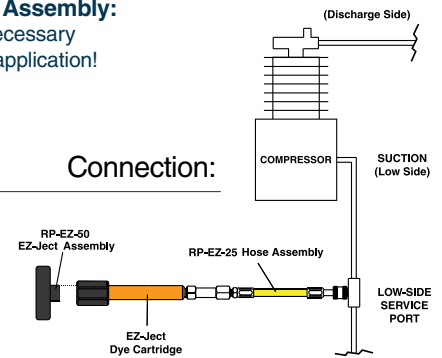


Reusable Injector Assembly:
Save money on unnecessary hardware with each application!



Universal/POE Dye: NSF Certified to meet food-grade processing requirements for category codes HTX-2 and HX-2

Connection:



EZ-Ject™ Fluorescent Dye Injection Kit

SPE-EZ100E-CS

- ▶ (2) **SPE-EZ5E** 0.5 oz (15 ml) universal/POE dye cartridges
- ▶ **RP-EZ-50** EZ-Ject™ dye injector assembly
- ▶ **RP-EZ-25** 8 in (20 cm) EZ-Ject™ hose assembly
- ▶ **RP-AD-410A** R-410a adapter/purge fitting

Treats a **TOTAL** up to:

- ▶ **4 gal** (15.2 L) of lubricant or
- ▶ **50 lbs** (22.6 kg) of refrigerant or
- ▶ **24 tons** (84.4 kW) of cooling



EZ-Ject™ Fluorescent Dye Cartridge

SPE-EZ5E-CS

- ▶ 0.5 oz (15 ml) universal/POE dye cartridge

Treats up to:

- ▶ **2 gal** (7.6 L) of lubricant or
- ▶ **25 lbs** (11.3 kg) of refrigerant or
- ▶ **12 tons** (42.2 kW) of cooling



GLO-STICK® (Patented) Fluorescent Dye Capsule System

Convenient, mess-free, single-dose capsules. Add refrigerant and fluorescent dye in one simple step.

- ▶ Available in 4 sizes/concentrations to match the capacity of the system.
- ▶ Inject dye while charging with refrigerant, or when connecting from the high side to the low side.



S-M

**Small-Medium
Sized AC&R Systems**

Dye Injection System



AR-GLO® 5E: Brighter Performance Dye

**UP TO 450
PSI**

Works in all AC&R systems, overcomes system pressure



Co-Solvent Free Dye



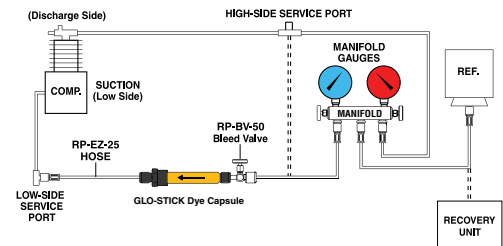
GLO-STICK® COMPLETE Fluorescent Leak Detection Kit

SPE-HVLGSE

- ▶ **SPE-HVL-CS** violet light LED leak detection lamp
- ▶ **SPE-GS1E** (1) 0.5 oz (15 ml) universal/POE GLO-STICK® dye capsule
- ▶ **SPE-GS2E** (2) 0.5 oz (15 ml) universal/POE GLO-STICK® dye capsules
- ▶ **SPE-GS3E** (1) 0.5 oz (15 ml) universal/POE GLO-STICK® dye capsule
- ▶ **RP-BV-50** bleed valve for attaching GLO-STICK® capsule to service hose
- ▶ **RP-EZ-25** 8 in (20 cm) EZ-Ject™ hose assembly
- ▶ **RP-AD-410A** R-410a adapter/purge fitting
- ▶ Purge capsule



Connection:



Universal/POE Dye: NSF Certified to meet food-grade processing requirements for category codes HTX-2 and HX-2



GLO-STICK® 101E Fluorescent Dye Capsule

SPE-GS101E-CS

- ▶ 0.03 oz (0.89 ml) universal/POE dye capsule
- Treats up to:
 - ▶ **15 oz** (445 ml) of lubricant or
 - ▶ **2.9 lbs** (1.3 kg) of refrigerant or
 - ▶ **1 ton** (3.5 kW) of cooling



GLO-STICK® 1E Fluorescent Dye Capsule

SPE-GS1E-CS

- ▶ 0.5 oz (15 ml) universal/POE dye capsule
- Treats up to:
 - ▶ **15.1 oz to 1.6 qt** (445 ml to 1.5 L) of lubricant or
 - ▶ **3 to 4.9 lb** (1.4 to 2.2 kg) of refrigerant or
 - ▶ **2 tons** (7 kW) of cooling



GLO-STICK® 2E Fluorescent Dye Capsule

SPE-GS2E-CS

- ▶ 0.5 oz (15 ml) universal/POE dye capsule
- Treats up to:
 - ▶ **1.7 to 3.2 qt** (1.6 to 3 L) of lubricant or
 - ▶ **5 to 9.9 lb** (2.3 to 4.5 kg) of refrigerant or
 - ▶ **6 tons** (21.1 kW) of cooling



GLO-STICK® 3E Fluorescent Dye Capsule

SPE-GS3E-CS

- ▶ 0.5 oz (15 ml) universal/POE dye capsule
- Treats up to:
 - ▶ **3.3 qt to 2 gal** (3.1 to 7.6 L) of lubricant or
 - ▶ **10 to 25 lb** (4.6 to 11.3 kg) of refrigerant or
 - ▶ **12 tons** (42.2 kW) of cooling



BigEZ™ (Patented) Fluorescent Dye Injection System

No pouring, no refrigerant, no spills — prefilled BigEZ™ cartridges are clearly labeled with 32 or 64 calibrations so you'll introduce exactly the right amount of dye every time!

- ▶ One calibrated cartridge provides exact dosing for multiple systems.
- ▶ Easily overcomes system pressure.
- ▶ Inject dye with a turn of the handle.



M-L

Medium-Large
Sized AC&R Systems



AR-GLO® 5E: Brighter Performance Dye

UP TO 200 PSI

Works in all AC&R systems, overcomes system pressure



Co-Solvent Free Dye



BigEZ™ COMPLETE Fluorescent Leak Detection Kit

SPE-HVLBEZE

- ▶ **SPE-HVL-CS** violet light LED leak detection lamp
- ▶ **SPE-BEZ5E** 4 oz (118 ml) BigEZ™ fluorescent dye cartridge
- ▶ **RP-BEZ-50** BigEZ™ dye injector assembly
- ▶ **RP-BEZ-25** 8 in (20 cm) BigEZ™ hose assembly with low-loss fitting & check valve

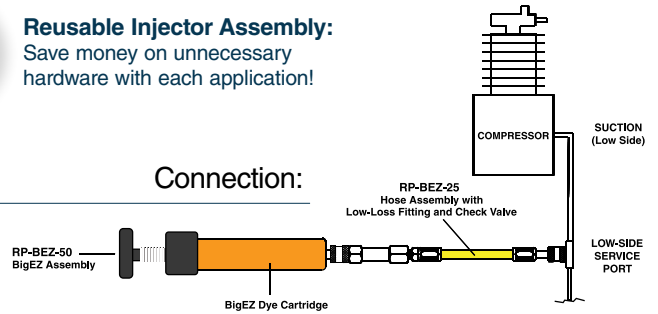


Reusable Injector Assembly:
Save money on unnecessary hardware with each application!



Universal/POE Dye: NSF Certified to meet food-grade processing requirements for category codes HTX-2 and HX-2

Connection:



BigEZ™ Fluorescent Dye Cartridge in Clamshell

SPE-BEZ5E-4CS

- ▶ 4 oz (118 ml) universal/POE dye cartridge
- Treats up to:
 - ▶ **16 gallons** (61 L) of lubricant or
 - ▶ **400 lbs** (181 kg) of refrigerant or
 - ▶ **150 tons** (527.5 kW) of cooling



BigEZ™ Fluorescent Dye Cartridge

SPE-BEZ5E-8

- ▶ 8 oz (237 ml) universal/POE dye cartridge
- Treats up to:
 - ▶ **32 gallons** (122 L) of lubricant or
 - ▶ **800 lbs** (362 kg) of refrigerant or
 - ▶ **300 tons** (1055.1 kW) of cooling



BigEZ™ Fluorescent Dye Cartridge for Oil-Less Systems

SPE-BEZOLE-4P3

- ▶ (3) 4 oz (118 ml) universal/POE dye cartridges
- Treats a **TOTAL** of up to:
 - ▶ **625 lbs** (283.5 kg) of refrigerant or
 - ▶ **77 tons** (270.8 kW) of cooling



Also Available:
SPE-HVLBEZOLE BigEZ™ COMPLETE
Fluorescent Leak Detection Kit for Oil-less Systems

AR-GLO® 5E (Patented) Fluorescent Leak Detection Dye

AR-GLO® bottled dyes can be poured directly into any AC&R system. Dye can remain safely in the system to confirm repairs and preform future preventive maintenance checks. Universal/POE dye is compatible with **ALL** refrigerants and lubricants

- ▶ Fluoresces up to **10% brighter**
- ▶ Improved Shelf Life – Up to 5 years!
- ▶ Improved Stability – More tolerant to extreme temperature range & moisture
- ▶ Environmentally Sound – Natural safe raw materials, small carbon footprint
- ▶ Exclusive Formula – From the inventors and most trusted name in fluorescent leak detection



Universal/POE Dye: NSF Certified to meet food-grade processing requirements for category codes HTX-2 and HX-2



AR-GLO® 5E* Fluorescent Leak Detection Dye

SPE-AG5E-16

- ▶ 16 oz (473 ml) twin neck bottle
- Treats up to:
- ▶ **64 gallons** (242 L) of lubricant

*Additional sizes available

Also Available:

SPE-AGOLE-16 AR-GLO 5E Fluorescent Leak Detection Dye for Oil-Less Systems

WATER-GLO® ULTRA (Patented) Fluorescent Leak Detection Dye

Find leaks fast in industrial sized water and water/glycol-based fluid systems. Ideal for heat transfer fluid system applications, including boilers, chillers, geothermal heat pump systems and many more.

- ▶ Highly concentrated dye that fluoresces green
- ▶ Works with Spectrolin leak detection lamp
- ▶ Pinpoint leaks in piping, valves, condensers, seals, welds, and fittings
- ▶ Ideal for use as part of a diagnostic/preventive maintenance program



WATER-GLO® Ultra Dye: NSF Certified to meet food-grade processing requirements for category codes G7, GX and HTX-2



WATER-GLO® ULTRA* Fluorescent Leak Detection Dye

SPE-WGG-8CS

- ▶ 8 oz (237 ml) twin neck bottle
- Treats up to:
- ▶ **500 gallons** (1,893 L) of water

*Additional sizes available

GLOSEAL™

Fluorescent Dye with Sealant

- ▶ Pinpoint micro-leaks with our exclusive, OEM-Grade dye formula
- ▶ 2-in-1 premium dye with powerful sealant
- ▶ Concentrated dye ensures all leaks are found
- ▶ Sealant repairs hidden micro-leaks and stops deterioration from the inside
- ▶ Perfect for preventative maintenance – Scan the system to reveal new leaks
- ▶ Works for you 24/7 – Continuous leak detection and ongoing sealing

S-M

Small-Medium
Sized AC&R Systems



PREMIUM DYE

+ Powerful Sealant



AR-GLO® 5E: Brighter
Performance Dye

**UP
TO 450
PSI**

Works in all AC&R
systems, overcomes
system pressure

**3.5
TONS
OF COOLING**

Increased System
Treatment Capacity

THE POWER OF GLOSEAL™

OEM-GRADE
Fluorescent Dye

2-IN-1
Solution

COMPATIBLE
with All Refrigerants

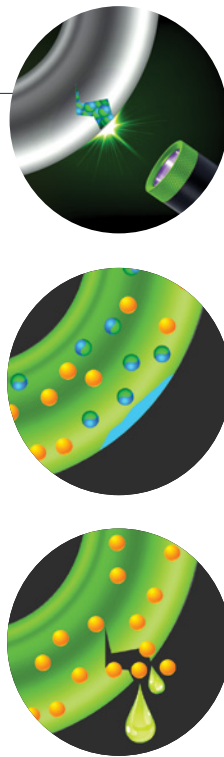
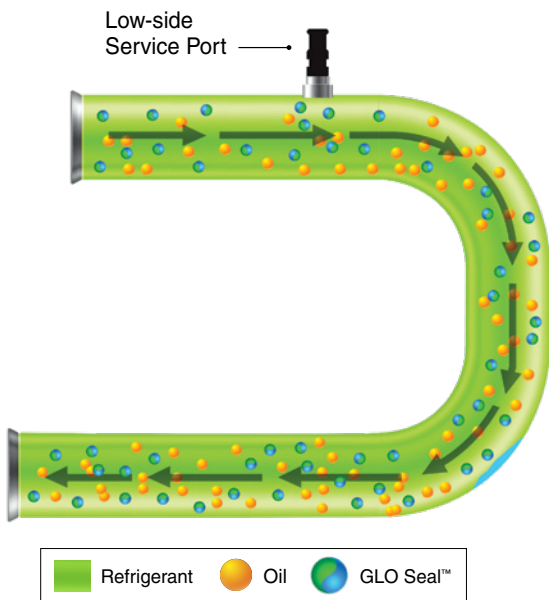
POWERFUL & SAFE
Non-Polymer Sealant,
Not Activated by Air or Moisture

24/7
Performance

MULTIPLE
Delivery Methods



How GLO Seal™ Works



1 Find & Fix Immediate Leaks

Scan the system with a UV Light to find all leak areas glow brightly with GLO Seal™ concentrated dye. Make an external repair to ensure all large leaks are fixed. GLO Seal™ can remain safely in the system.



2 Seal Difficult to Find Leaks

GLO Seal™ pinpoints the location of all internal micro-leaks, forming a repair from the inside.



3 24/7 Leak Detect + Ongoing Sealant

Scan the system periodically to find new leaks. Small, hard-to-find leaks hurt system performance and will eventually lead to total compressor burnout. Have peace of mind as GLO Seal™ works for you 24/7 for continual leak detection and ongoing sealing!



EZ-Ject™ Injection



GLO Seal™ Fluorescent Dye + Sealant EZ-Ject™ Dye Injection Kit

SPE-EZDSK-CS

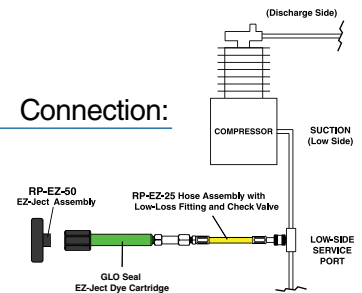
- ▶ SPE-EZDS (2) 0.5 oz (15 ml) EZ-Ject™ cartridges prefilled with GLO Seal™ Fluorescent Dye + Sealant
- ▶ RP-EZ-50 EZ-Ject™ dye injector assembly
- ▶ RP-EZ-25 8 in (20 cm) EZ-Ject™ hose assembly
- ▶ RP-AD-410A R-410a adapter/purge fitting
- ▶ Service labels

Treats a **TOTAL** of up to:
▶ **7 tons** (24.6 kW) of cooling



Reusable Injector Assembly:
Save money on unnecessary hardware with each application!

Connection:



GLO Seal™ Fluorescent Dye + Sealant EZ-Ject™ Cartridge

SPE-EZDS-CS

- ▶ 0.5 oz (15 ml) EZ-Ject™ cartridge prefilled with GLO Seal™ Fluorescent Dye + Sealant
- Treats up to:
▶ **3.5 tons** (12.3 kW) of cooling



Stick Capsule Injection



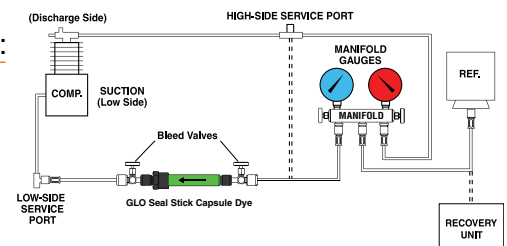
GLO Seal™ Fluorescent Dye + Sealant Stick Capsule

SPE-GSDS-CS

- ▶ 0.5 oz (15 ml) stick capsule prefilled with GLO Seal™ Fluorescent Dye + Sealant
- ▶ Requires bleed valves for injection

Treats up to:
▶ **3.5 tons** (12.3 kW) of cooling

Connection:



Bleed Valve

RP-BV-50

- ▶ Requires two (not included)



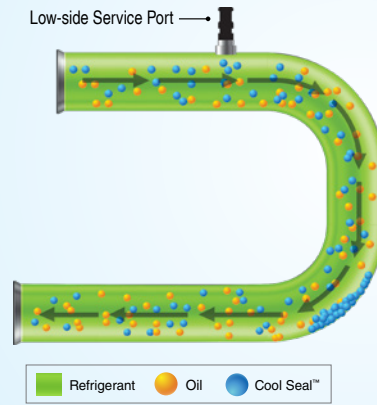
COOLSEAL™ (Patented) A/C Leak Sealer

Seals micro leaks in condensers, evaporators, O-rings and hoses. Can add years to older, out-of-warranty AC&R systems that leak small amounts of refrigerant.

- ▶ Works with all popular refrigerants and oils.
- ▶ Remains safely in system to help protect against future leaks.

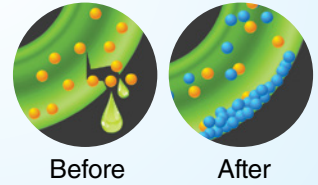
S-M

**Small-Medium
Sized AC&R Systems**



HOW IT WORKS:

When the sealant is exposed to an environment where there is a **dramatic drop in pressure and temperature**, a **seal** will begin to form at the leak site until it is fully sealed.



Refrigerant Oil Cool Seal™



SAFE, NON-POLYMER
Oil-Soluble Formula

**UP TO 450
PSI**

Works in all AC&R systems, overcomes system pressure



Meets **ASHRAE 97** Standards for Chemical Stability



EZ-Ject™ Injection

Inject sealant with a **turn of the handle!**



Cool Seal™ EZ-Ject™ Injection Kit

CS-100CS

- ▶ **CS-1** (2) 0.5 oz (15 ml) EZ-Ject™ cartridges prefilled with Cool Seal™ A/C Leak Sealer
- ▶ **RP-EZ-50** EZ-Ject™ dye injector assembly
- ▶ **RP-CS-25** 8 in (20 cm) Cool Seal™ EZ-Ject™ hose assembly
- ▶ **RP-AD-410A** R-410a adapter/purge fitting
- ▶ Service labels

Treats a **TOTAL** of up to:

- ▶ **8 tons** (28.1 kW) of cooling



Cool Seal™ EZ-Ject™ Cartridge

CS-1CS

- ▶ 0.5 oz (15 ml) EZ-Ject™ cartridge prefilled with Cool Seal A/C Leak Sealer

Treats up to:

- ▶ **4 tons** (14.1 kW) of cooling



Reusable Injector Assembly:

Save money on unnecessary hardware with each application!



Stick Capsule Injection

Add **sealant and refrigerant** in one simple step!



Cool Seal™ Stick Capsule

CS-3CS

- ▶ 0.5 oz (15 ml) stick capsule prefilled with Cool Seal™ A/C Leak Sealer
- ▶ Requires bleed valves for injection

Treats up to:

- ▶ **4 tons** (14.1 kW) of cooling



Cool Seal™ Mini-Stick Capsule

SPE-CSMS-CS

- ▶ 0.3 oz (10 ml) stick capsule prefilled with Cool Seal™ A/C Leak Sealer
- ▶ Requires bleed valves for injection

Treats up to:

- ▶ **3 tons** (10.6 kW) of cooling



Bleed Valve

RP-BV-50

- ▶ Requires two (not included)

Also Available:

BigEZ™ Injection | CS-2CS Cool Seal™ BigEZ™ Cartridge

ACID-BUSTER™ (Patented)

Acid Scavenging Solution

Ready-to-use solution, eliminates acid-build up and helps prevent compressor burnout. Use for preventative maintenance and repair – it will not contaminate the refrigerant or lubricant or leave behind harmful residue. Compatible with semi-hermetic, hermetic and scroll compressors.

- ▶ Twice as concentrated as competitive solutions
- ▶ Works with all refrigerants and lubricants
- ▶ Direct, reusable injector protects against overdosing



Small-Medium
Sized AC&R Systems



Safe for System
Components

UP TO 450
PSI

Works in all AC&R
systems, overcomes
system pressure



Prevents
Compressor Burnout



ACID-BUSTER™ EZ-Ject™ Injection Kit

AB-100CS

- ▶ AB-5 (2) 0.5 oz (15 ml) EZ-Ject™ cartridges pre-filled with ACID-BUSTER™ Acid Scavenging Solution
 - ▶ RP-EZ-50 EZ-Ject™ dye injector assembly
 - ▶ RP-EZ-25 8 in (20 cm) EZ-Ject™ hose assembly
 - ▶ RP-AD-410A R-410a adapter/purge fitting
 - ▶ Service labels
- Treats a **TOTAL** of up to:
- ▶ **4 tons** (14.1 kW) of cooling



Reusable Injector Assembly:
Save money on unnecessary hardware with each application!



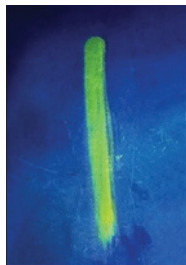
ACID-BUSTER™ EZ-Ject™ Cartridge

AB-5CS

- ▶ 0.5 oz (15 ml) EZ-Ject™ cartridges pre-filled with ACID-BUSTER™ Acid Scavenging Solution
- Treats up to
- ▶ **2 tons** (7 kW) of cooling

GLO-AWAY™ PLUS + Fluorescent Dye Cleaner

- ▶ New formulation that works to **dissolve** fluorescent dye from the leak site.
- ▶ Requires less application & less time removing left over dye.



Other Dye
Cleaners



GLO-AWAY™
PLUS

CONCENTRATED FORMULA

Stronger formula makes
it easier to remove the
toughest dye stains.



GLO-AWAY™ PLUS Fluorescent Dye Cleaner

RP-GA-2

- ▶ 2 oz (60 ml) spray bottle



UP TO
25 ft (8 m)
Inspection
Range

3x
AAA
Batteries
Included

5h
Runtime


Fluorescence
Enhancing
(Optional)



SPECTROLINE® Violet LED Leak Detection Flashlight

SPE-HVL-CS

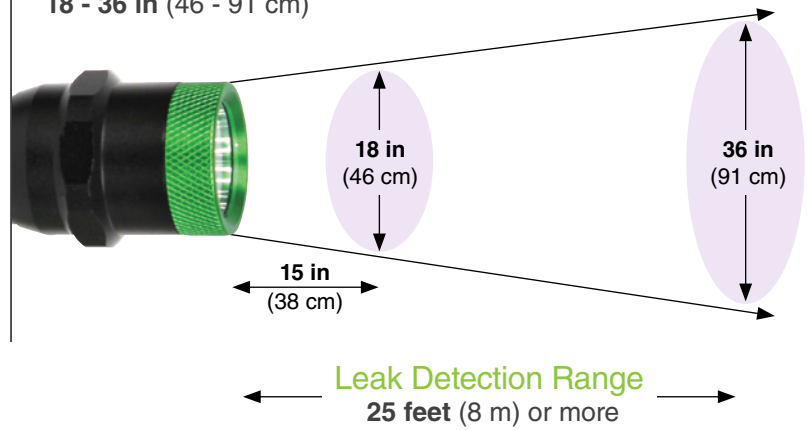
Battery operated, violet light LED leak detection flashlight that is both economical and powerful. Features a pre-focused beam to optimize fluorescent response, anti-roll cuff, a 5-hour runtime and an inspection range up to 25 ft.

Includes:

- ▶ 3 AAA batteries
- ▶ Anti-roll cuff
- ▶ Fluorescence enhancing glasses

Total Coverage Area

18 - 36 in (46 - 91 cm)



Full-color clamshell packaging

Specifications

| | |
|----------------------------|---------------------|
| Light Source: | Violet Light LED |
| Lamp Style: | Cordless Flashlight |
| Lamp Head Diameter: | 1.25 in (3.2 cm) |
| Length: | 5.9 in (15 cm) |

| | |
|----------------------|----------------------|
| Weight: | 4.8 oz (0.14 kg) |
| Power Source: | 3 "AAA" batteries |
| Run Time: | 5 hours (continuous) |



ADVANTAGES OF FLUORESCENT LEAK DETECTION



The Spectroline® brand is **trusted** by more HVAC/R OEMs than any other brand...

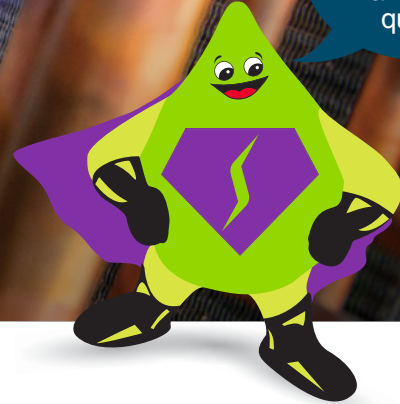


FREQUENTLY ASKED QUESTIONS



UV MAN

Here to
answer your
questions!



Why is Spectroline trusted by more OEMs than any other brand?

Spectronics Corporation invented fluorescent leak detection in 1955. Today, we are the world's leading manufacturer of ultraviolet equipment and fluorescent leak detection dye. Spectroline products are the first and only choice for AC&R professionals. Our OEM-approved fluorescent dyes are co-solvent free, NSF certified, and can safely remain within AC&R systems.

How do I use fluorescent leak detection dye?

Simply add our patented dye to the suspect system. Let the dye circulate. Once the dye has permeated the system, scan for leaks with one of our high-intensity leak detection flashlights. All leak sites will glow brightly with escaping fluorescent dye.

Which injection method should I use?

Use our EZ-Ject™ or GLO-STICK® injection method for small-to-medium sized AC&R systems – such as residential units, ice machines, window units, and refrigerators. Use our BigEZ™ injection method for medium-to-large sized AC&R systems – e.g., commercial units, supermarket units, refrigerated warehouses, food and dairy plants, and industrial facilities. Review our product dosage information for the correct application.

What are co-solvents and how do they alter system performance?

Co-solvents are chemical substances added to increase the solubility of specific compounds. This means co-solvents harmfully change the original lubricant properties of refrigerant oil. Co-solvents can lead to premature wear and outright damage. Poorly manufactured fluorescent dyes typically contain high levels of co-solvents. In addition to changing system properties, co-solvents have the potential to deteriorate system metals.

Why is dye concentration important?

Dye fluorescence is dependent on the ratio of fluorescent material to carrier oil. Poor performing dyes typically have low levels of fluorescent material. Simply put, poor dyes lack the concentration necessary to provide an effective fluorescent response. Spectroline dyes are concentrated and able to fluoresce all leak areas brightly. This means Spectroline dyes are more economical because less dye is used per application.

How long does it take to find a leak?

In small-to-medium sized systems, you can find leaks within minutes. In commercial systems, it may take a few hours for the dye to circulate completely. For preventative maintenance, add Spectroline dye long before you have a problem. A technician can perform an inspection within a matter of seconds if the dye has already had time to fully circulate.

System Type: ^① **Small Systems:** Ice Machines, Window A/C Units & Refrigerators **Residential Systems** **Light Commercial & Large Residential Systems** **Commercial & Light Industrial Systems**

EZ-Ject™ Multi-Dose Cartridge for Small to Medium Sized Systems

| | | | | |
|--------------------|-----------------------|-------------------------------------|--------------------------------|----------------------------------|
| Lubricant | Up to 15 oz (445 ml) | 15.1 oz to 1.6 qt (445 ml to 1.5 L) | 1.7 to 3.2 qt (1.6 to 3 L) | 3.3 qt to 2 gal (3.1 to 7.6 L) |
| Refrigerant Charge | Up to 2.9 lb (1.3 kg) | 3 to 4.9 lb (1.4 to 2.2 kg) | 5 to 9.9 lb (2.3 to 4.5 kg) | 10 to 25 lb (4.6 to 11.3 kg) |
| Tons of Cooling | Up to 1 ton (3.5 kW) | 1.1 to 2 tons (3.9 to 7 kW) | 2.1 to 6 tons (7.4 to 21.1 kW) | 6.1 to 12 tons (21.5 to 42.2 kW) |
| Horsepower | Up to 1 Hp | 1.1 to 4 Hp | 4.1 to 10 Hp | 10.1 to 25 Hp |
| Lines on Cartridge | 1 line | 2 lines | 6 lines | 8 - 14 lines |

GLO-Stick® Single-Dose Capsules for Small to Medium Sized Systems

| | | | | |
|--------------------|-----------------------|-------------------------------------|--------------------------------|----------------------------------|
| Lubricant | Up to 15 oz (445 ml) | 15.1 oz to 1.6 qt (445 ml to 1.5 L) | 1.7 to 3.2 qt (1.6 to 3 L) | 3.3 qt to 2 gal (3.1 to 7.6 L) |
| Refrigerant Charge | Up to 2.9 lb (1.3 kg) | 3 to 4.9 lb (1.4 to 2.2 kg) | 5 to 9.9 lb (2.3 to 4.5 kg) | 10 to 25 lb (4.6 to 11.3 kg) |
| Tons of Cooling | Up to 1 ton (3.5 kW) | 1.1 to 2 tons (3.9 to 7 kW) | 2.1 to 6 tons (7.4 to 21.1 kW) | 6.1 to 12 tons (21.5 to 42.2 kW) |
| Horsepower | Up to 1 Hp | 1.1 to 4 Hp | 4.1 to 10 Hp | 10.1 to 25 Hp |

Lubricant Type:

| | | | | |
|---------------|---------------------|-------------------|-------------------|-------------------|
| Universal/POE | SPE-GS101E | SPE-GS1E | SPE-GS2E | SPE-GS3E |
| PVE | SPE-GS101PVE | SPE-GS1PVE | SPE-GS2PVE | SPE-GS3PVE |

^① Always use the lubricant volume when it is known. Refrigerant charge, tonnage and horsepower are approximations.

GLO-STICK® dye capsules require the use of two RP-BV-50 bleed valves (for use on 1/4 inch flare hose fittings).

BigEZ™ Multi-Dose Cartridge for Medium to Large Sized Systems

| | | |
|------------------|----------------------|--|
| SPE-BEZ5E | BigEZ™ Method | 1 line, 1/8 oz (3.7 ml) per 1/2 gal (1.9 L) of lubricant, 12.5 lb (5.7 kg) of refrigerant or 5 tons (17.6 kW) of cooling |
|------------------|----------------------|--|

Bottled Dyes

| | | |
|--------------------|-------------------------|--|
| SPE-AG5E-16 | AR-GLO® 5E | 0.25 oz (7.4 ml) per gallon (3.8 L) of lubricant |
| SPE-WGG-8CS | WATER-GLO® ULTRA | 8 oz (237 ml) per 500 gallons (1,900 L) of water |

GLO Seal™ Fluorescent Dye + Sealant for Small to Medium Sized Systems

| | | |
|--------------------|-----------------------------|--|
| SPE-EZDS-CS | EZ-Ject™ Method | Treats up to 3.5 tons (12.3 kW) of cooling |
| SPE-GSDS-CS | Stick Capsule Method | Treats up to 3.5 tons (12.3 kW) of cooling |

Cool Seal™ A/C Leak Sealer for Small to Medium Sized Systems

| | | |
|--------------------|----------------------------------|---|
| CS-1CS | EZ-Ject™ Method | Treats up to 4 tons (14.1 kW) of cooling |
| CS-2CS | EZ-Ject™ or BigEZ™ Method | Treats up to 16 tons (56.3 kW) of cooling |
| CS-3CS | Stick Capsule Method | Treats up to 4 tons (14.1 kW) of cooling |
| SPE-CSMS-CS | Stick Capsule Method | Treats up to 3 tons (10.6 kW) of cooling |

ACID-BUSTER™ Acid Scavenging Solution for Small to Medium Sized Systems

| | | |
|----------------------------|------------------------|---------------------------------------|
| AB-5CS ^① | EZ-Ject™ Method | Treats up to 2 tons (7 kW) of cooling |
|----------------------------|------------------------|---------------------------------------|

^① On severely acidic systems, double the dosage shown

SPECTROLINE®

LEAK DETECTION

STEP 1

INJECT DYE

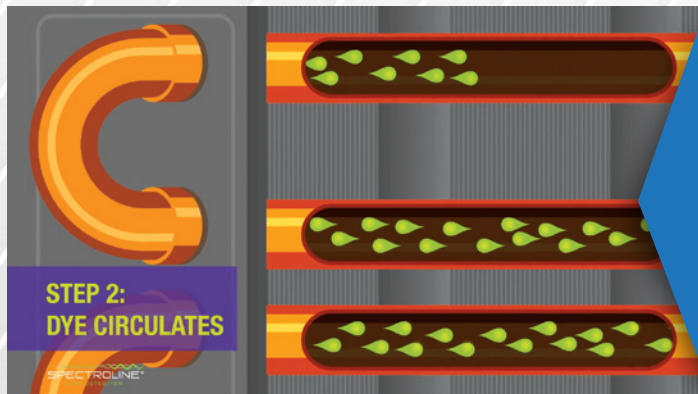
Technician injects fluorescent dye at the low-side of the system.



STEP 2

DYE CIRCULATES

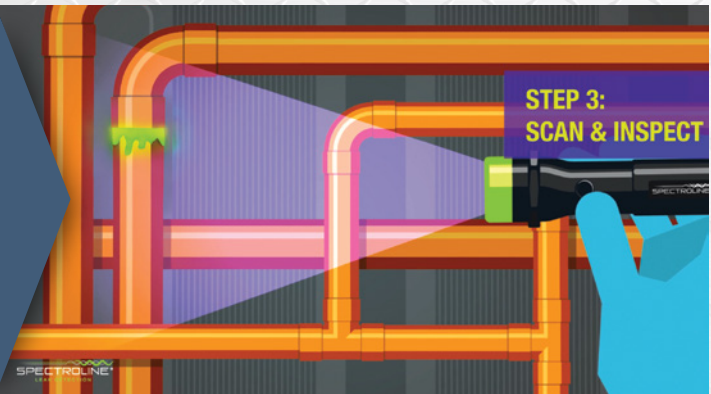
While the system is running, the dye starts to circulate through the system.



STEP 3

SCAN & INSPECT

Scan system with a violet UV lamp, dye will glow at every leak site.
Dye can remain safely in the system, indefinitely.



WORKING FOR YOU 24/7 – ONCE IN, ALWAYS ON

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