

Fluorescent Leak Detection Products & System Additives for AC&R Systems



Featuring the New & Improved
AR-GLO® 5
Brighter Performance Dye

Trusted by more HVAC/R
OEMs than any other brand...



BRISTOL
COMPRESSORS



Copeland®
brand products



embraco



FUJITSU

Honeywell



SANYO



Residential A/C



Commercial A/C



Refrigeration






SPECTROLINE®
 LEAK DETECTION

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FLUORESCENT LEAK DETECTION:

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



Add dye to the system & let it circulate

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

Dye continues circulating in the system 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!



Introducing the
NEW & IMPROVED

AR-GLO[®] 5 FLUORESCENT DYE

For 2019, Spectroline is proud to announce the release of AR-GLO[®] 5 Fluorescent Dye – **our brightest, highest quality, and most advanced dye formula ever.**

The new AR-GLO[®] 5 dye formula fluoresces up to **10% brighter.** That's a big improvement and sets us even further apart from other brand formulations on the market.

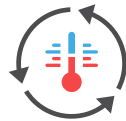
In addition, AR-GLO[®] 5 dyes have an **increased resistance to extreme temperature ranges and moisture.** The bottom line: these quality dyes perform better under difficult conditions and have greater stability, making them the perfect tool **for long-term preventative maintenance and leak detection.**

The dye has a much greater shelf life. It can be stored up to **150% longer.**



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

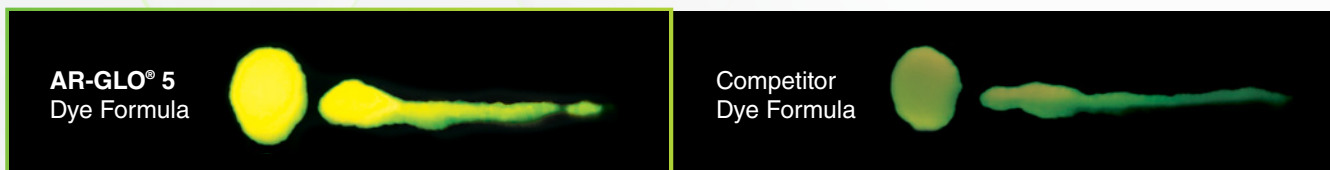
Formulated with safe raw materials & helps reduce refrigeration emissions into the atmosphere



Exclusive Formula

From the inventors & most trusted name in fluorescent leak detection

Spectroline[®] dyes **glow brighter** than the competition.



Shown under 400 nm light with amber glasses

**Depending on system application ratio*

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.



AR-GLO® 5E: Brighter Performance Dye

Works in all AC&R systems, overcomes system pressure up to:

450 PSI



Co-Solvent Free Dye



Multi-Dose Cartridge



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
- ▶ **EZ-50** EZ-Ject™ dye injector assembly
- ▶ **EZ-25** 8 in (20 cm) EZ-Ject™ hose assembly with low-loss fitting & check valve
- ▶ **128186** R-410a adapter



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



EZ-Ject™ Fluorescent Dye Injection Kit

SPE-EZ100E-CS

- ▶ (2) **SPE-EZ5E** 0.5 oz (15 ml) universal/POE dye cartridges
- ▶ **EZ-50** EZ-Ject™ dye injector assembly
- ▶ **EZ-25** 8 in (20 cm) EZ-Ject™ hose assembly with low-loss fitting & check valve
- ▶ **128186** R-410a adapter

Treats a **TOTAL** up to:

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



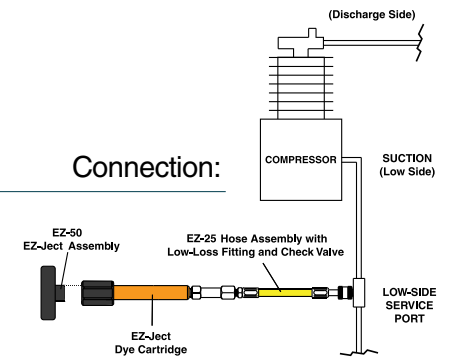
EZ-Ject™ Fluorescent Dye Cartridge

SPE-EZ5E-CS

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

Treats up to:

- ▶ **2 gal** (7.6 ml) 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

Works in all AC&R systems, overcomes system pressure up to:

**450
PSI**



Co-Solvent Free Dye



Single-Dose Capsules



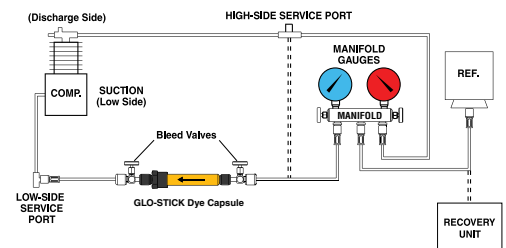
GLO-STICK® COMPLETE Fluorescent Leak Detection Kit

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
- ▶ **BV-50** bleed valve for attaching GLO-STICK® capsule to service hose
- ▶ **EZ-25** 8 in (20 cm) EZ-Ject™ hose assembly with low-loss fitting & check valve
- ▶ **PC-0249** purge capsule
- ▶ **128186** R-410a adapter



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

For systems using PVE lubricant: SPE-GS101PVE-P6, SPE-GS1PVE-P6, SPE-GS2PVE-P6, SPE-GS3PVE-P6

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.



AR-GLO® 5E: Brighter Performance Dye

Works in all AC&R systems, overcomes system pressure up to:

200 PSI



Co-Solvent Free Dye



Multi-Dose Cartridge



BigEZ™ COMPLETE Fluorescent Leak Detection Kit

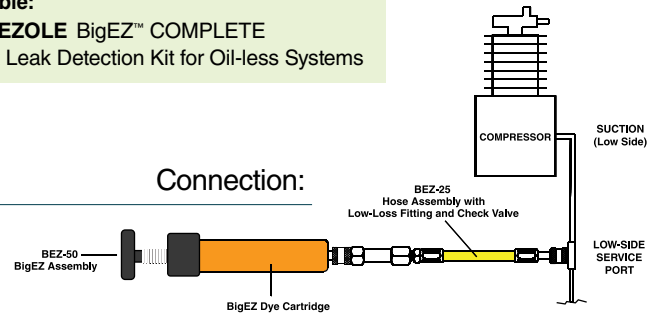
SPE-HVLBEZE

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

| | | | | | | |
|-------------------------|-------------------------------------|-------------------------------|-------------------------|-----------------------|----------------------|--|
| VIOLET LIGHT LED | 3x AAA Batteries Included | Fluorescence Enhancing | GLO-AWAY™ Plus + | Service Labels | 3x Drip Plugs | 128186 R-410a Adapter Additional accessory (sold separately) |
|-------------------------|-------------------------------------|-------------------------------|-------------------------|-----------------------|----------------------|--|

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

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



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

3 Pack

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-BEZ400E-CS BigEZ™ Fluorescent Dye Injection Kit

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 perform 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

WATER-GLO® 802 (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 **ANY** 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® 802 Dye: NSF Certified to meet food-grade processing requirements for category codes G7, GX and HTX-2



WATER-GLO® 802 Fluorescent Leak Detection Dye

WATER-GLO 802-P

- ▶ 16 oz (473 ml) twin neck bottle
- Treats up to:
- ▶ **1,000 gallons** (3,800 L) of water

NEW!

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

1. Find & Fix
Immediate Leaks



2. Seal Difficult
to Find Leaks



3. Leak Detection &
Ongoing Sealing

THE POWER OF GLOSEAL™

OEM-GRADE
Fluorescent Dye

2-IN-1
Solution

COMPATIBLE
with All Refrigerants

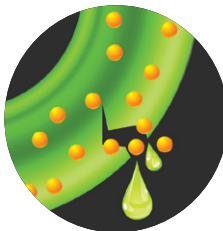
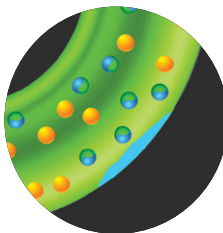
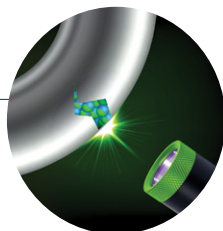
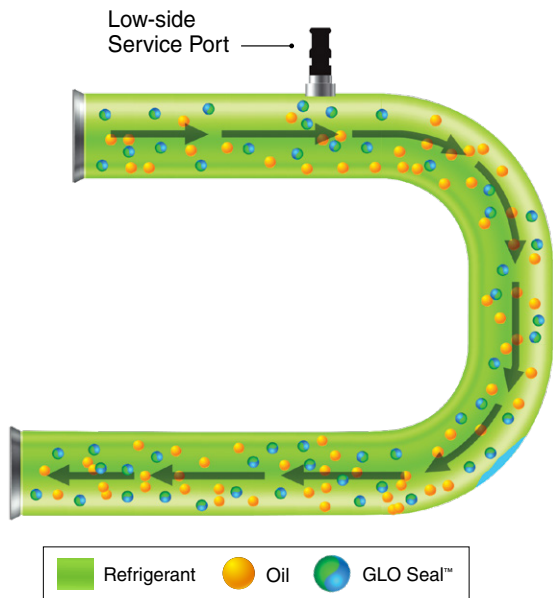
POWERFUL & SAFE
Non-Polymer Sealant,
Not Activated by Air or Moisture

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 Method



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

SPE-EZDS-CS **NEW!**

- ▶ **SPE-EZDS** (2) 0.5 oz (15 ml) EZ-Ject™ cartridges prefilled with GLO Seal™ Fluorescent Dye + Sealant
- ▶ **EZ-50** EZ-Ject™ dye injector assembly
- ▶ **EZ-25** 8 in (20 cm) Cool Seal™ EZ-Ject™ hose assembly with low-loss fitting & check valve
- ▶ **128186** R-410a adapter
- ▶ Service labels

Treats a **TOTAL** of up to:
▶ **5 tons** (17.6 kW) of cooling



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



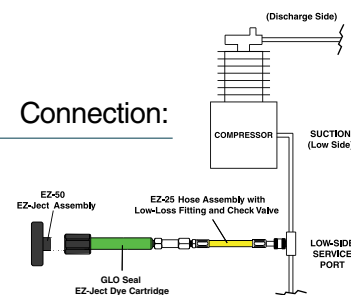
GLO Seal™ Fluorescent Dye + Sealant EZ-Ject™ Cartridge

SPE-EZDS-CS **NEW!**

- ▶ 0.5 oz (15 ml) EZ-Ject™ cartridge prefilled with GLO Seal™ Fluorescent Dye + Sealant

Treats up to:
▶ **2.5 tons** (8.8 kW) of cooling

Connection:



Stick Capsule Injection Method



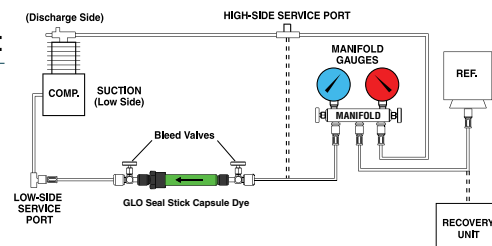
GLO Seal™ Fluorescent Dye + Sealant Stick Capsule

SPE-GSDS-CS **NEW!**

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

Treats up to:
▶ **2.5 tons** (8.8 kW) of cooling

Connection:



Bleed Valve

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**



SAFE, NON-POLYMER
Oil-Soluble Formula



Meets
ASHRAE 97 Standards
for Chemical Stability



**Three Convenient
Delivery Methods**

EZ-Ject™ Injection Method



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
- ▶ **EZ-50** EZ-Ject™ dye injector assembly
- ▶ **CS-25** 8 in (20 cm) Cool Seal™ EZ-Ject™ hose assembly with low-loss fitting & check valve
- ▶ **128186** R-410a adapter
- ▶ Service labels

Treats a **TOTAL** of up to:
▶ **4 tons** (14 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:

- ▶ **2 tons** (7 kW) of cooling

Also Available:

CS-1/15CS Cool Seal™ EZ-Ject™ Contractor's Value Pack (15) CS-1 0.5 oz (15 ml) Cool Seal™ A/C leak sealer cartridges. Treats a **total of 30 tons** (105.5 kW) of cooling.

**15
Pack**

Stick Capsule Injection Method



Cool Seal™ Stick Capsule

CS-3CS

- ▶ 0.5 oz (15 ml) stick capsule prefilled with Cool Seal™ A/C Leak Sealer
- ▶ Add Cool Seal™ A/C Leak Sealer and refrigerant in one simple step
- ▶ Requires bleed valves for injection

Treats up to:
▶ **2 tons** (7 kW) of cooling



Bleed Valve

BV-50

- ▶ Requires two (not included)

BigEZ™ Injection Method



Cool Seal™ BigEZ™ Cartridge

CS-2CS

- ▶ 2 oz (60 ml) large, prefilled cartridge works with BigEZ™ injector
- ▶ Can also be used with EZ-Ject™ injector

Treats up to:

- ▶ **8 tons** (28.1 kW) of cooling

BigEZ™ Assembly:

- BEZ-50** BigEZ™ injector assembly
- CS-35** 8 in (20 cm) BigEZ™ hose assembly with low-loss fitting & check valve

EZ-Ject™ Assembly:

- EZ-50** EZ-Ject™ dye injector assembly
- CS-50** EZ-Ject™ adapter
- 119690** Purge fitting

NOTE: Injection assembly not included.

ACID-BUSTER™ (Patented)

Acid Scavenging Solution

Twice as concentrated as competitive solutions. Works with **ALL** refrigerants and lubricants (mineral oil, POE, PVE, and alkyl benzene lubricant).

- ▶ Compatible with semi-hermetic, hermetic and scroll compressors.
- ▶ Direct, reusable injector eliminates the need for an oil pump.



S-M Small-Medium
Sized AC&R Systems



Eliminates Acid Buildup
in AC&R Systems

Works in all AC&R
systems, overcomes
system pressure up to:

**450
PSI**



Prevents
Compressor Burnout



ACID-BUSTER™ EZ-Ject™ Injection Kit

AB-100CS

- ▶ **AB-5** (2) 0.5 oz (15 ml) EZ-Ject™ cartridges prefilled with ACID-BUSTER™ Acid Scavenging Solution
- ▶ **EZ-50** EZ-Ject™ injector assembly
- ▶ **EZ-25** 8 in (20 cm) EZ-Ject™ hose assembly with low-loss fitting & check valve
- ▶ **128186** R-410a adapter
- ▶ Service labels

Treats a **TOTAL** of up to:
▶ **64 oz** (1,892 ml) of lubricant



ACID-BUSTER™ EZ-Ject™ Cartridge

AB-5CS

- ▶ 0.5 oz (15 ml) EZ-Ject™ cartridges prefilled with ACID-BUSTER™ Acid Scavenging Solution
- Treats up to
- ▶ **32 oz** (946 ml) of lubricant

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.



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

NEW & IMPROVED!



GLO-AWAY® PLUS

Fluorescent Dye Cleaner

128484

- ▶ 2 oz (60 ml) spray bottle



NEW & IMPROVED
Lamp Design

Violet Light LED Leak Detection Lamp

Economical and powerful, cordless leak detection lamp. Reveals even the smallest refrigerant leaks!

SPE-HVL-CS

- ▶ Provides optimal fluorescent dye response and contrast
- ▶ Pre-focused beam optimizes fluorescent response
- ▶ Compact design easily gets into tight, cramped spaces
- ▶ Rugged, corrosion-resistance anodized lamp body stands up to years of heavy use
- ▶ Anti-roll cuff
- ▶ Runtime: 5 hours



Universal/POE
Dyes Only

NOTE: For most applications, our violet light lamp does not require fluorescence-enhancing glasses.



UP TO
25 ft (8 m)
Inspection
Range

5h
Runtime

3x
AAA
Batteries
Included

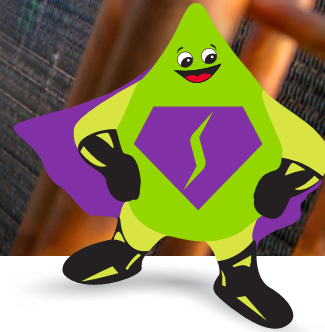
**Fluorescence
Enhancing**



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



FREQUENTLY ASKED QUESTIONS



UV MAN
IS 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: | SPE-GS101E | SPE-GS1E | SPE-GS2E | SPE-GS3E |
|-----------------|--------------|------------|------------|------------|
| Universal/POE | | | | |
| 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 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 |
| WATER-GLO 802-P | WATER-GLO® | 16 oz (473 ml) per 1,000 gallons (3,800 L) of water |

| | | |
|--|-----------------------------|---|
| GLO Seal™ Fluorescent Dye + Sealant for Small to Medium Sized Systems | | |
| SPE-EZDS-CS | EZ-Ject™ Method | Treats up to 2.5 tons (8.8 kW) of cooling |
| SPE-GSDS-CS | Stick Capsule Method | Treats up to 2.5 tons (8.8 kW) of cooling |

| | | |
|---|----------------------------------|---|
| Cool Seal™ A/C Leak Sealer for Small to Medium Sized Systems | | |
| CS-1CS / CS-1/15CS | EZ-Ject™ Method | Treats up to 2 tons (7 kW) of cooling / Contractor Pack of (15) cartridges treats a total of 30 tons (105.5 kW) of cooling |
| CS-2CS | EZ-Ject™ or BigEZ™ Method | Treats up to 8 tons (28.1 kW) of cooling |
| CS-3CS | Stick Capsule Method | Treats up to 2 tons (7 kW) of cooling |

| | | |
|--|------------------------|---|
| ACID-BUSTER™ Acid Scavenging Solution for Small to Medium Sized Systems | | |
| AB-5CS ① | EZ-Ject™ Method | 4 lines, 1/8 oz (3.7 ml) per 8 oz (237 ml) of refrigerant oil Treats up to 32 qt (946 ml) of oil |

① On severely acidic systems, double the dosage shown



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