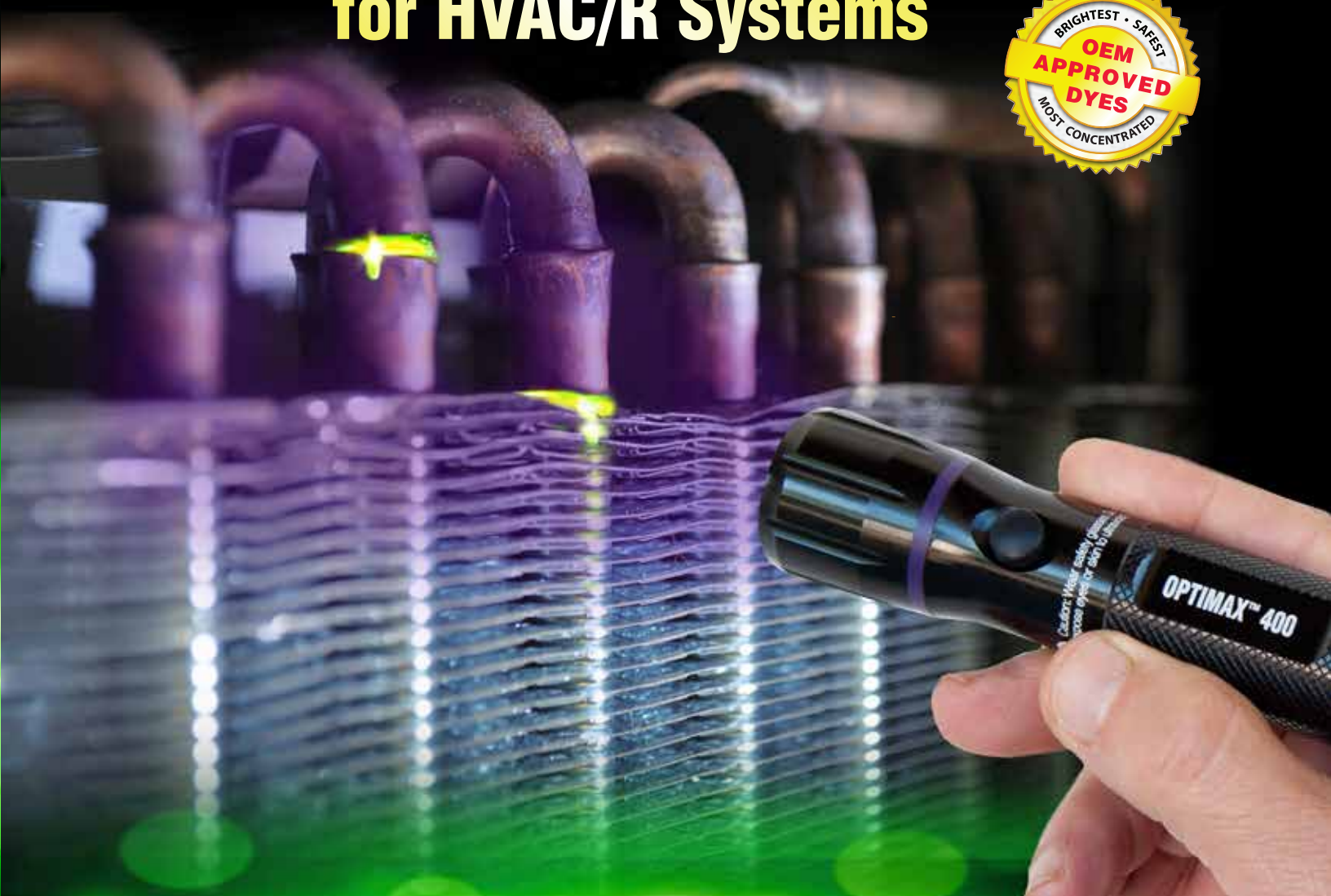


SPECTROLINE®

Fluorescent Leak Detection Products for HVAC/R Systems



Residential Systems



Commercial Systems



Refrigeration Systems



AR-GLO® Fluorescent AC&R Dyes

All Spectrolin[®] fluorescent dyes can remain safely in the system. This makes it fast and easy to pinpoint leaks, confirm repairs and perform future preventive maintenance checks. AR-GLO[®] AC&R dyes are the only dyes that give you all these benefits:

- **Universal (POE)** – Dyes are compatible with all refrigerants and lubricants
- **Lubricant-specific** – Dyes exactly match the lubricant in the system
- **Co-solvent free** – Dyes will not impair lubricant properties, which could lead to excessive wear or damage to system components
- **NSF Certified** – Registered to meet food-grade processing requirements for category codes HTX-2 and HX-2*



*Universal/POE dyes only

How It Works

Just add a small amount of dye to the system and let it circulate. The dye/oil mixture escapes with the refrigerant wherever there is a leak and glows brightly when inspected with a high-intensity Spectrolin[®] leak detection lamp.

Small to Medium Size Systems

EZ-Ject™

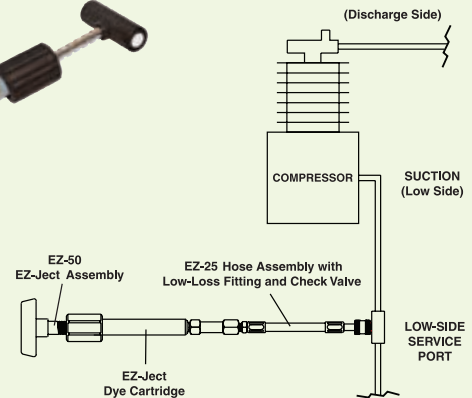
Multi-Dose Dye Injection System (Patented)

Convenient and economical. Works in all systems, including high-pressure R-410A systems!

- Each prefilled, disposable EZ-Ject dye cartridge treats up to 2 gallons (7.6 L) of lubricant, 25 lbs (11.3 kg) of refrigerant or 12 tons of cooling. 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.



CONNECTION:

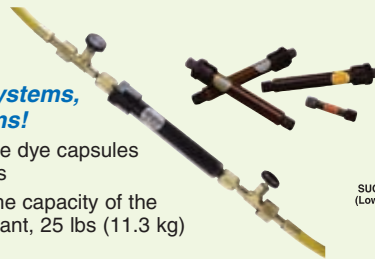


GLO-STICK®

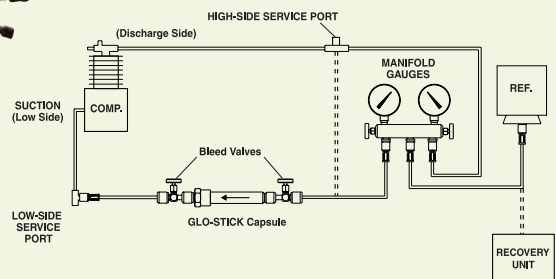
Dye Capsules (Patented)

Fast and easy servicing. Works in all systems, including high-pressure R-410A systems!

- Prefilled, single-dose, self-cleaning, disposable dye capsules eliminate measuring, pouring and messy spills
- Available in 4 sizes/concentrations to match the capacity of the system. Treats up to 2 gallons (7.6 L) of lubricant, 25 lbs (11.3 kg) of refrigerant or 12 tons of cooling.
- Inject dye while charging with refrigerant, or when connecting from the high side to the low side.
- Metering orifice prevents slugging of the compressor



CONNECTION:



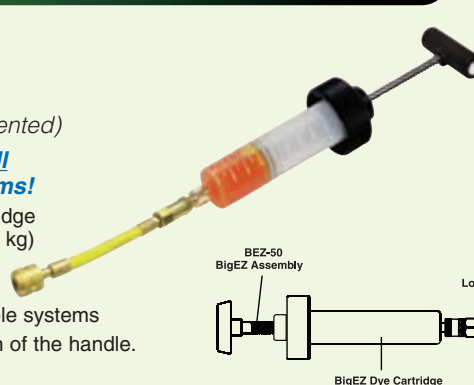
Medium to Large Size Systems

BigEZ™

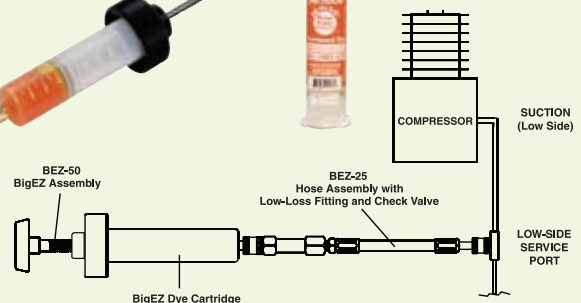
Multi-Dose Dye Injection System (Patented)

Most economical for larger systems. Works in all systems, including high-pressure R-410A systems!

- Each prefilled, disposable 4 oz (118 ml) BigEZ dye cartridge treats up to 16 gallons (60.8 L) of lubricant, 400 lbs (180 kg) of refrigerant or 150 tons of cooling. 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.



CONNECTION:



➡ See back cover for recommended dosages

Violet Light LED Leak Detection Flashlights and Kits

Budget Friendly!



OPX-400CS

OPTIMAX™ 400 Economical, Cordless, Violet Light LED Leak Detection Flashlight
Yellow fluorescence-enhancing glasses not required for most applications!

- Provides optimal fluorescent dye response and contrast
- For use with universal/POE dyes only
- Power comparable to high-intensity 150-watt lamps
- Inspection range of 25 feet (7.6 m) or more
- 100,000-hour LED service life
- 5 hours of continuous inspection time
- Lightweight, compact design easily gets into tight, cramped spaces
- Powered by 3 “AAA” batteries
- Includes lanyard, holster and fluorescence-enhancing glasses

Rechargeable!



OLX-400

OPTI-LUX™ 400 Rechargeable, Cordless, Violet Light LED Leak Detection Flashlight
Yellow fluorescence-enhancing glasses not required for most applications!

- Provides optimal fluorescent dye response and contrast
- For use with universal/POE dyes only
- Power comparable to high-intensity 150-watt lamps
- Inspection range of 25 feet (7.6 m) or more
- 100,000-hour LED service life
- 4 hours of continuous inspection time
- Lightweight, compact design easily gets into tight, cramped spaces
- Powered by one rechargeable lithium-ion battery (included)
- Includes smart battery charging cradle with AC and DC cord sets, lanyard and fluorescence-enhancing glasses

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

OPK-40EZ/E Complete EZ-Ject™ Kit

Features the OPX-400 OPTIMAX™ 400 economical, cordless, violet light LED leak detection flashlight



FOR SMALL TO MEDIUM SIZE AC&R SYSTEMS.
Versatile, multi-dose dye cartridges. Injector easily overcomes system pressure. Add fluorescent dye with system off or running!

Treats up to 50 lbs (22.7 kg) of refrigerant, 4 gallons (15 L) of lubricant, or 24 tons of cooling!

Kit contains:

- EZ-50 EZ-Ject™ dye injector assembly
- EZ-25 hose/coupler with check valve, low-loss and purge fittings
- (2) EZ-4/E 0.5 oz (14.8 ml) universal/POE dye cartridges
- (3) Drip plugs for hose/coupler
- 8 oz (237 ml) spray bottle GLO-AWAY™ dye cleaner
- Fluorescence-enhancing glasses and rugged carrying case

OPK-40GS/E Complete GLO-STICK® Kit

Features the OPX-400 OPTIMAX™ 400 economical, cordless, violet light LED leak detection flashlight



FOR SMALL TO MEDIUM SIZE AC&R SYSTEMS.

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

Treats up to 50 lbs (22.7 kg) of refrigerant, 4 gallons (15 L) of lubricant, or 24 tons of cooling!

Kit contains:

- (1) BV-50 bleed valve for attaching GLO-STICK® capsules to service hose
- (1) PC-0249 purge capsule
- EZ-25 hose/coupler with check valve, low-loss and purge fittings
- (1) GS-1/E universal/POE GLO-STICK® dye capsule
- (2) GS-2/E universal/POE GLO-STICK® dye capsules
- (1) GS-3/E universal/POE GLO-STICK® dye capsule
- 8 oz (237 ml) spray bottle GLO-AWAY™ dye cleaner
- Fluorescence-enhancing glasses and rugged carrying case

OLK-400EZ/E Complete EZ-Ject™ Kit

Features the OLX-400 OPTI-LUX™ 400 rechargeable, cordless, violet light LED leak detection flashlight



FOR SMALL TO MEDIUM SIZE AC&R SYSTEMS.
Versatile, multi-dose dye cartridges. Injector easily overcomes system pressure. Add fluorescent dye with system off or running!

Treats up to 50 lbs (22.7 kg) of refrigerant, 4 gallons (15 L) of lubricant, or 24 tons of cooling!

Kit contains:

- EZ-50 EZ-Ject™ dye injector assembly
- EZ-25 hose/coupler with check valve, low-loss and purge fittings
- (2) EZ-4/E 0.5 oz (14.8 ml) universal/POE dye cartridges
- (3) Drip plugs for hose/coupler
- 8 oz (237 ml) spray bottle GLO-AWAY™ dye cleaner
- Smart battery charging cradle with AC and DC cord sets
- Fluorescence-enhancing glasses and rugged carrying case

OLK-400BEZ/E Complete BigEZ™ Kit

Features the OLX-400 OPTI-LUX™ 400 rechargeable, cordless, violet light LED leak detection flashlight



FOR MEDIUM TO LARGE SIZE AC&R SYSTEMS.
Versatile, multi-dose dye cartridges. Injector easily overcomes system pressure. Add fluorescent dye with system off or running!

Treats up to 400 lbs (181 kg) of refrigerant, 16 gallons (60.8 L) of lubricant or 150 tons of cooling!

Kit contains:

- BEZ-50 BigEZ™ dye injector assembly
- BEZ-25 hose/coupler with check valve, low-loss and purge fittings
- (1) BEZ-4/E 4 oz (118 ml) universal/POE dye cartridge
- (3) Drip plugs for hose/coupler
- 8 oz (237 ml) spray bottle GLO-AWAY™ dye cleaner
- Smart battery charging cradle with AC and DC cord sets
- Fluorescence-enhancing glasses and rugged carrying case

Blue Light LED Leak Detection Flashlights and Kits

Super Affordable!



OPX-500CS

CE U

OPTIMAX Jr™ Ultra-Compact, Cordless, Blue Light LED Leak Detection Flashlight

Perfect for tight spaces!

- Power comparable to 75W lamps
- Inspection range of 6 feet (1.8 m) or more
- Compatible with all leak detection dyes
- 100,000-hour LED service life
- 5.5 hours of continuous inspection time
- Powered by 3 "AA" batteries
- Fluorescence-enhancing glasses (required)

Green "U" symbol indicates that flashlight works best with universal, "E" polyol ester (POE) AC&R dyes
Red "CS" part number suffix denotes full-color, hanging clamshell packaging

Rechargeable!



CE U

OPX-3000

OPTIMAX™ 3000 Rechargeable, Cordless, Blue Light LED Leak Detection Flashlight

15 times brighter than standard LED lights!

- Power comparable to high-intensity 150W lamps
- Inspection range of 25 feet (7.6 m) or more
- Compatible with all leak detection dyes
- 100,000-hour LED service life
- 3 hours of continuous inspection time
- Powered by rechargeable NiMH battery (included)
- Smart AC and DC chargers
- Fluorescence-enhancing glasses (required)

Also available: **OPK-300 OPTIMAX™ 3000 Lamp Kit**
Features all of the above in a rugged carrying case

OPK-50EZ/E Complete EZ-Ject™ Kit

Features the **OPX-500CS OPTIMAX Jr™** ultra-compact, cordless, blue light LED leak detection flashlight



FOR SMALL TO MEDIUM SIZE AC&R SYSTEMS, including high-pressure R-410A systems!

Treats up to 50 lbs (22.7 kg) of refrigerant, 4 gallons (15 L) of lubricant, or 24 tons of cooling!

Kit contains:

- EZ-50 EZ-Ject™ dye injector assembly
- EZ-25 hose assembly with check valve, low-loss and purge fittings
- (2) EZ-4/E 0.5 oz (14.8 ml) universal/POE cartridges
- (3) Drip plugs for hose/coupler
- 8 oz (237 ml) spray bottle GLO-AWAY™ dye cleaner
- Fluorescence-enhancing glasses and rugged carrying case

OPK-300EZ/E Complete EZ-Ject™ Kit

Features the **OPTIMAX™ 3000** rechargeable, cordless, blue light LED leak detection flashlight



FOR SMALL TO MEDIUM SIZE AC&R SYSTEMS, including high-pressure R-410A systems!

Treats up to 50 lbs (22.7 kg) of refrigerant, 4 gallons (15 L) of lubricant, or 24 tons of cooling!

Kit contains:

- EZ-50 EZ-Ject™ dye injector assembly
- EZ-25 hose assembly with check valve, low-loss and purge fittings
- (2) EZ-4/E 0.5 oz (14.8 ml) EZ-Ject™ universal/POE dye cartridges
- (3) Drip plugs for hose/coupler
- 8 oz (237 ml) spray bottle GLO-AWAY™ dye cleaner
- Smart AC and DC chargers
- Fluorescence-enhancing glasses and rugged carrying case

OPK-50GS/E Complete GLO-STICK® Kit

Features the **OPX-500CS OPTIMAX Jr™** ultra-compact, cordless, blue light LED leak detection flashlight



FOR SMALL TO MEDIUM SIZE AC&R SYSTEMS, including high-pressure R-410A systems!

Treats up to 50 lbs (22.7 kg) of refrigerant, 4 gallons (15 L) of lubricant, or 24 tons of cooling!

Kit contains:

- (1) BV-50 bleed valve for attaching GLO-STICK® capsule to service hose
- (1) PC-0249 purge capsule
- EZ-25 hose/coupler with check valve, low-loss and purge fittings
- (1) GS-1/E universal/POE GLO-STICK® dye capsule
- (2) GS-2/E universal/POE GLO-STICK® dye capsules
- (1) GS-3/E universal/POE GLO-STICK® dye capsule
- 8 oz (237 ml) spray bottle GLO-AWAY™ dye cleaner
- Fluorescence-enhancing glasses and rugged carrying case

OPK-300BEZ/E Complete BigEZ™ Kit

Features the **OPTIMAX™ 3000** rechargeable, cordless, blue light LED leak detection flashlight



FOR MEDIUM TO LARGE SIZE AC&R SYSTEMS, including high-pressure R-410A systems!

Treats up to 400 lbs (181 kg) of refrigerant, 16 gallons (60.8 L) of lubricant or 150 tons of cooling!

Kit contains:

- BEZ-50 BigEZ™ dye injector assembly
- BEZ-25 hose assembly with check valve, low-loss and purge fittings
- (1) BEZ-4/E 4 oz (118 ml) universal/POE dye cartridge
- (3) Drip plugs for hose/coupler
- 8 oz (237 ml) spray bottle GLO-AWAY™ dye cleaner
- Smart AC and DC chargers
- Fluorescence-enhancing glasses and rugged carrying case

Attractive, Full-Color Hanging Display Packaging



Cool Seal™ A/C Leak Sealer

Seals slow leaks as large as 0.020 inch (0.5 mm) in compressors, condensers, evaporators, O-rings and hoses—quickly and permanently. Non-polymer, oil-soluble formula is safe for AC&R system components and recovery equipment. Ideal for preventive maintenance!

CS-100CS Cool Seal™ EZ-Ject™ A/C Leak Sealer Kit



VIEW VIDEO

Contains:

- EZ-50 EZ-Ject injector assembly
- CS-25 hose/coupler with check valve and purge fitting
- (2) CS-1 0.5 oz (14.8 ml) EZ-Ject cartridges prefilled with Cool Seal™ A/C leak sealer. Each cartridge treats up to 2 tons of cooling.

- ✓ Works in all popular AC&R systems, including high-pressure R-410A systems
- ✓ An alternative to expensive parts replacement on older AC&R systems
- ✓ Meets ASHRAE 97 standard for chemical stability

Cool Seal™ Cartridges



CS-1CS 0.5 oz (14.8 ml)
EZ-Ject™ cartridge

CS-2CS 2 oz (50 ml)
BigEZ™ cartridge.
Works with BigEZ™
injector. Can also be
used with EZ-Ject™
injector using CS-50

adapter and CS-35 hose/coupler. Full cartridge treats 6 to 12 tons of cooling.



AB-100CS ACID-BUSTER™ Injection Kit

Acid Scavenging Solution — prevents compressor burnout!

Contains:

- EZ-50 EZ-Ject injector assembly
- EZ-25 hose assembly with check valve and 1/4 inch flare low-loss fitting
- (2) AB-5 0.5 oz (14.8 ml) EZ-Ject cartridges prefilled with ACID-BUSTER acid scavenging solution



ACID-BUSTER™ Cartridges

AB-4CS
ACID-
BUSTER
4 oz
(118 ml)
cartridge



AB-5CS
ACID-
BUSTER
0.5 oz
(14.8 ml)
cartridge

Also available: AB-400CS ACID-BUSTER™ Injection Kit. Features BEZ-50 BigEZ injector assembly, BEZ-25 hose assembly with check valve and 1/4 inch flare low-loss fitting, and (1) 4 oz (118 ml) AB-4 BigEZ cartridge prefilled with ACID-BUSTER acid scavenging solution.



EZ-100/ECS Universal Dye Injection Kit



*For all AC&R systems, including high-pressure R-410A systems!
Compatible with Mineral Oil, Polyol Ester, PVE and Alkyl Benzene Lubricants
Treats up to 50 lbs (22.7 kg) of refrigerant, 4 gallons (15 L) of lubricant, or 24 tons of cooling!*

Contains:

- EZ-50 EZ-Ject dye injector assembly
- EZ-25 hose assembly with check valve and 1/4 inch flare low-loss fitting
- (2) EZ-4/E 0.5 oz (14.8 ml) EZ-Ject universal/POE dye cartridges
- Service labels



EZ-Ject™ Dye Cartridges

EZ-4/ECS
(Universal/POE)
0.5 oz (14.8 ml)
cartridge



BEZ-400/ECS Universal Dye Injection Kit



*For all AC&R systems, including high-pressure R-410A systems!
Compatible with Mineral Oil, Polyol Ester, PVE and Alkyl Benzene Lubricants
Treats up to 400 lbs (181 kg) of refrigerant, 16 gallons (60.8 L) of lubricant, or 150 tons of cooling!*

Contains:

- BEZ-50 dye injector assembly
- BEZ-25 hose assembly with check valve and 1/4 inch flare low-loss fitting
- (1) 4 oz (118 ml) BEZ-4/E universal/POE dye cartridge
- Service labels



BigEZ™ Dye Cartridges

BEZ-4/ECS
(Universal/POE)
4 oz (118 ml)
cartridge

GLO-STICK® Dye Capsules



GS-101/ECS
(Universal/POE)



GS-1/ECS
(Universal/POE)

GS-2/ECS
(Universal/POE)

GS-3/ECS
(Universal/POE)

Note: Available in other sizes/formulations.



TES-31 Tamper-Evident Straps

*Protect AC&R systems against refrigerant cross-contamination and unqualified repairs.
Warranty your work and ensure return business.*

- Fast and easy to use
- No special tools required
- Packaged in convenient zip-lock storage bag
- Comes complete with 10 tamper-proof tie straps with unique serial numbers and matching labels



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

Dosage Charts



Note: All universal/POE dye cartridges and capsules are NSF Certified and registered to meet food-grade processing requirements for category codes HTX-2 and HX-2

EZ-Ject™ A/C Dye Cartridges

SYSTEM TYPE ①	Small systems, e.g., ice machines, window A/C units and refrigerators	Residential systems②	Light commercial and large residential systems②	Commercial and light industrial, including all split systems②
Refrigeration Oil Charge	Up to 15 fl oz (445 ml)	15.1 fl oz to 1.6 qt (445 ml to 1.5 L)	1.7 to 3.2 qt (1.6 to 3.0 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	1.1 to 2 tons	2.1 to 6 tons	6.1 to 12 tons
Horsepower	Up to 1 Hp	1.1 to 4 Hp	4.1 to 10 Hp	10.1 to 25 Hp
No. Graduations on EZ-Ject	1	2	6	8-14

Treatment: One graduation treats one pint of refrigeration oil; two graduations treat one quart.

① Always use the **refrigeration oil charge** when it is known. Refrigerant charge, tonnage and horsepower are approximations.

② One full cartridge is recommended for **all** split systems, even if they are being used for residential applications and they hold less than 10 lbs of refrigerant.

GLO-STICK® A/C Dye Capsules

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

SYSTEM TYPE ①	Small systems, e.g., ice machines, window A/C units and refrigerators	Residential systems②	Light commercial and large residential systems②	Commercial and light industrial, including all split systems②
Refrigeration Oil Charge	Up to 15 fl oz (445 ml)	15.1 fl oz to 1.6 qt (445 ml to 1.5 L)	1.7 to 3.2 qt (1.6 to 3.0 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	1.1 to 2 tons	2.1 to 6 tons	6.1 to 12 tons
Horsepower	Up to 1 Hp	1.1 to 4 Hp	4.1 to 10 Hp	10.1 to 25 Hp
LUBRICANT TYPE				
Polyol Ester (Universal/POE)	GS-101/ECS	GS-1/ECS	GS-2/ECS	GS-3/ECS
Mineral Oil	GS-101CS	GS-1CS	GS-2CS	GS-3CS
PVE	GS-101/PVE	GS-1/PVE	GS-2/PVE	GS-3/PVE

① Always use the **refrigeration oil charge** when it is known. Refrigerant charge, tonnage and horsepower are approximations.

② Use GS-3 series with **all** split systems, even if they are being used for residential applications and they hold less than 10 lbs of refrigerant.

BigEZ™ A/C Dye Cartridges

Dye Dose for BEZ-4 Series	System Size
1 line, 1/8 oz (3.7 ml)	1/2 gal (1.9 L) of lubricant, 12.5 lb (5.7 kg) of refrigerant or 5 tons of cooling

ACID-BUSTER™ Acid Scavenging Solution

Product Number	Injector	Cartridge Size	Dosage ①
AB-5CS	EZ-Ject™	0.5 oz (14.8 ml)	4 lines, 1/8 oz (3.7 ml) per 8 oz (237 ml) of refrigerant oil. One cartridge treats up to 1 qt (946 ml) of oil.
AB-4CS	BigEZ™	4 oz (118 ml)	1 line, 1/8 oz (3.7 ml) per 8 oz (237 ml) of refrigerant oil. One cartridge treats up to 2 gal (7.6 L) of oil.

① On severely acidic systems, double the dosage shown



SPECTRONICS CORPORATION

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