KRYON**LEAKGUARD**

SEALING ADDITIVE FOR MICRO-LEAKS

Compatible with all major refrigerants (HFC, HFO, HC, CO_2)

GK-LAB Chemical Products

✓ Permanent sealant | ✓ Zero Risk of clogging | ✓ No Alteration of the refrigerant | ✓ Quick and safe injection

Description

KryonLeakGuard is a professional sealing additive based on non-polymer technology enriched with Titanium, designed to repair micro-leaks in refrigeration circuits without dismantling the system. It works directly inside the circuit while the system is running, ensuring a permanent and long-lasting sealing effect.
“One operation. No leaks. Maximum efficiency.”

Key features

- Permanent sealing effect on circuit micro-leaks
- Does not alter the refrigerant composition
- No risk of clogging in valves or heat exchangers
- Non-polymer technology with active Titanium
- Compatible with all fluorinated gases: HFO, HFC, HCFC, Hydrocarbons (HC) and CO_2
- Compatible with POE, PAG and mineral lubricants
- Remains permanently in the system — no removal required
- Compatible with the other products in the GK-LAB™ range

Typical applications

- Residential and commercial split systems
- Chillers and VRF systems
- Heat pumps
- Cold rooms and commercial refrigeration
- Automotive air conditioning (automotive A/C)
- Large industrial systems with oil reservoir

How to identify a micro-leak

KryonLeakGuard is suitable for systems that slowly lose refrigerant over weeks or months. To check whether it is a micro-leak:

1. Pull a deep vacuum on the system
2. Check whether the vacuum holds for at least 5 minutes

If the vacuum holds, it is a micro-leak: the system can be repaired with KryonLeakGuard.

Injection procedure

System charged with gas:

- Locate the low-pressure valve
- Connect a valve / Luer Lock adapter fitted with a non-return valve
- Screw the syringe or cartridge onto the adapter
- Slowly inject the required dose at a constant flow
- Remove the adapter

For systems with low-side pressure < 5–6 bar: use the plunger syringe. For low-side pressures > 5–6 bar (up to 18 bar): use the GK-LAB pressure cartridge.

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Systems with oil reservoir:

For large systems with an oil reservoir, KryonLeakGuard can be charged directly like an oil. The active time depends on the oil change frequency.

Systems without gas charge:

–If possible: charge LeakGuard directly into the oil, then pull the vacuum and charge the gas

–If not possible (e.g. hermetic systems): pull the vacuum, charge KryonLeakGuard through the low-pressure valve, then charge the gas

Repair time:

The system must keep running after injection. Times vary depending on the size and geometry of the leak:

- 5–10 minutes: automotive systems and small domestic splits
- Up to a few hours: large or industrial circuits

Recommended dosage

Application	Recommended format	Notes
Automotive A/C	8 ml syringe	Low-side pressure generally < 6 bar
Residential split up to 7 kW	8 ml syringe	1 cartridge or 8 ml syringe
Dual / Triple split	8 ml cartridge	2 cartridges (dual) – 3 cartridges (triple)
Split up to 21 kW	8 ml cartridge	Check low-side pressure
Medium A/C / refrigeration	48 ml cartridge	8 ml per 800 ml of lubricant
Large systems	250 ml / 1 L bottle	Charge via oil reservoir or low-pressure side

Available formats

Format	Quantity	Main application
Syringe	8 ml	Automotive A/C, small splits
Cartridge	8 ml	Residential split
Cartridge	48 ml	Medium/commercial systems
Bottle	250 ml	Large systems
Bottle	1 L	Industrial use / oil reservoir

Technical notes and warnings

- Always inject through the low-pressure valve
- The system must run for at least 15 minutes after injection (up to 24 hours for large systems)
- The product remains permanently in the system: no removal or replacement of gas or lubricant required
- Non-polymer: does not cause clogging in circuit components
- Compatible with the full GK-LAB™ range

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