





■ SUPER SEAL & LEAKARMOR SEALANT KITS *MasterCare* SERVICE+ MAINTENANCE

■ ARE SUPER SEAL & LEAKARMOR ADVANCED COMPATIBLE WITH ALL OILS AND REFRIGERANTS, INCLUDING 410A?

Yes, SUPER SEAL and LEAKARMOR is packaged in a vacuum and uses the system's refrigerant to charge the can and propel the sealant into the system. Use as per application guidelines below:

Size system	Product application	SUPER SEAL HVAC/R LEAK SEALANT KIT
SMALL SYSTEMS up to 1.5 tons/5 kW	For systems up to 1.5 tons/5 kW use 1 can : SUPER SEAL 944 - removes 20 drops of water	
MEDIUM SYSTEMS 1.5-5 tons/5-17 kW	For systems 1.5-5 tons/5-17 kW use 1 can SUPER SEAL & LEAKARMOR 944 -removes 20 drops of water	 
LARGE SYSTEMS 5+ tons/17+ kW	For systems 5+ tons/17+ kW use : 1 can SUPER SEAL 944 -removes 20 drops of water	

For systems 25+ tons/88+ kW go to cliplight.com/hvacr or call 866.548.3644 or 5199699456 for technical support.

SUPER SEAL & LEAKARMOR SEALANT KITS

HVAC/R LEAK SEALANT KIT

The DiversiTech International sales team are available to answer your questions or queries on this product. Our experts are waiting for your call +44 (0)115 900 5858 or if you prefer send an email to sales@diversitech.com or visit www.diversitech.global

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■ WHAT SIZE HOLE AND PRESSURES WILL SUPER SEAL & LEAKARMOR REPAIR?

For optimum success a system should not be leaking more than 15% of its total refrigerant charge over a 4 week period. SUPER SEAL & LEAKARMOR has been specifically designed to seal micro pores, 300 micron (characterized as champagne leaks) and smaller, typical seasonal leaks. The repair by the sealant will withhold 800 psi, as well as, low pressure vacuum testing used in triple evacuation procedures.

Note: SUPER SEAL & LEAKARMOR cannot permanently seal cracks that are subjected to thermal expansion and contraction movement.

■ WHEN SHOULD SUPER SEAL & LEAKARMOR BE USED?

It should be used when conventional leak detection methods are unsuccessful and all attempts to find and fix a leak have been exhausted. Use in compliance with the Montreal Protocol & regional or federal laws for handling of refrigerant.

■ HOW DOES SUPER SEAL & LEAKARMOR WORK?

SUPER SEAL & LEAKARMOR is a light or low viscosity particle free liquid, the sealant is injected as a mist directly into the refrigerant stream utilizing our patented 29,000th of an inch orifice. As it travels with the refrigerant and oil throughout the system, the sealant exits the leak point and reacts with moisture in the atmosphere it forms a low tensile crystalline structure creating a permanent seal.

■ WHAT IF THERE IS MOISTURE IN THE SYSTEM?

The addition of Dry R to all our SUPER SEAL & LEAKARMOR formulas adds an extra level of protection beyond what normal sealants can offer. The active ingredient in Dry R reacts with water to eliminate 20 drops of moisture from the system. Higher levels of moisture can prematurely activate the sealant and cause formation at areas of moisture concentration such as driers, and metering devices, resulting in possible restriction and system failure. We recommend that technicians always adhere to ARI recommended levels of moisture for AC/R systems.

■ WILL SUPER SEAL & LEAKARMOR CLOG THE VALVE CORE AS I INJECT THE PRODUCT INTO THE SYSTEM?

No, when the sealant is injected into the system, it has already been combined with the refrigerant charge and the refrigerant acts as a solvent, cleaning the valve core as it passes through.

■ WILL THE SEALANT HARM THE COMPRESSOR OR ANY OTHER COMPONENTS IN THE SYSTEM?

No, the sealant is completely compatible with the electrical windings of the compressor motor. It will not interfere with compressor valves or form wax in cap tubes, orifices, or thermostatic expansion valves, and does not impede the lubricity of the system oil in any way.

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Glaisdale Drive East
Nottingham NG8 4LY
United Kingdom

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■ WHAT HAPPENS TO SUPER SEAL & LEAKARMOR WHILE IT IS IN THE SYSTEM?

The chemical formulation remains in a stable state while it travels within the dry refrigerant/oil stream. Only when it exits at a leak point and makes contact with moisture in the air does it begin to form a permanent seal.

■ HOW LONG WILL SUPER SEAL & LEAKARMOR REMAIN IN THE SYSTEM?

It will remain in an active form for up to 10 years or longer protecting the system against micro leaks. As with any chemical mixture it will eventually break down into non active by-products which are safe and compatible to components, oil, and refrigerant and will not affect systems performance.

■ WHAT HAPPENS IF A LINE BURSTS ON A SYSTEM CONTAINING SUPER SEAL & LEAKARMOR?

Along with the refrigerant and oil, approximately ninety five percent of the sealant is carried out of the system. The remaining five percent of sealant will remain in the oil sump and condenser in a stable soluble oil state as a non reactive.

■ WHAT HAPPENS TO SUPERSEAL IF I NEED TO RECLAIM THE REFRIGERANT?

It is removed from the AC or refrigeration system with the refrigerant and carried through the recovery machine to the recovery tank. Any repairs to the system are carried out using standard methods you would typically use on a unit, such as cleaning brazing points and using nitrogen when brazing.

■ HOW DO I CLASSIFY RECOVERED REFRIGERANT FROM A SYSTEM WHICH HAD SUPER SEAL & LEAKARMOR?

As long as the system did not experience a burn out or a compilation of mixed refrigerants, the recovered refrigerant needs only to be identified as used when returned to a refrigerant recycling depot. Cliquight sealants are vacuum packed, particle free and contain no propellants such as propane or isobutane and will not contaminate refrigerants. The sealant is a liquid and is easily separated with the oil during the recovering process.

■ HAS THE CHEMICAL TECHNOLOGY IN SUPER SEAL & LEAKARMOR EVER BEEN USED BEFORE?

Yes, the sealant technology in SUPER SEAL & LEAKARMOR has been used for decades to seal leaks in underground gas transmission lines, as well as in pipes, tanks, compressors and gas pressurized vessels

■ ARE THERE ANY CHECKS TO BE COMPLETED BEFORE INSTALLING SUPER SEAL & LEAKARMOR?

Yes, verify the system temperature readings: the temperature at the compressor base should not be in excess of 130°F/54°C, compressor discharge temperature above 225°F/107.2°C or a 2 degree or greater temperature differential across the liquid line drier. Should these conditions exist you must treat the system as contaminated with particulate and proceed accordingly.

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■ FAQ'S DRY R™

■ WHAT IS DRY R? HOW DOES IT WORK?

Dry R removes 60 drops of water, dissolves blockages, frees up metering devices, reduces compressor draw, and internal formicary corrosion. The active ingredient in Dry R is referred to as a hydrolytic. Dry R eliminates moisture from the system by chemically disassembling the H₂O molecule and reorganizing it into two new stable products. No particulates, gels, or polymers are formed. By eliminating moisture, Dry R™ allows the oil to continue to condition and stabilize the refrigeration system. DRY R does not mask water by raising the freezing point, as in the case with alcohol products, used in glycol mixtures.

■ WHEN SHOULD DRY R BE USED?

Dry R is essential for new or old systems and should be installed anytime a system is opened for repairs. Dry R is compatible for eliminating moisture in all refrigerants & oils. Dry R eliminates the need to change out a drier with high moisture levels.

■ IS DRY R ABLE TO REMOVE BLOCKAGES?

Yes, Dry R™ is effective in breaking down blockages, removing varnish films, and scale on moving parts such as TXV's, caused by moisture.

■ IS DRY R COMPATIBLE WITH ALL OILS AND REFRIGERANTS, INCLUDING 410A?

Yes, Dry R is packaged in a vacuum and uses the system's refrigerant to charge the can and propel it into the system.

■ HOW WILL DRY R™ AFFECT DRIERS AND METERING DEVICES?

Dry R does not have any negative effect on driers or metering devices, but will eliminate system moisture, ice crystals, reduce scale and sludge formation.

■ WILL DRY R™ HARM MY MANIFOLD GAUGE SET OR RECOVERY EQUIPMENT?

No, Dry R has non-aggressive properties and is equipment safe. When recovering refrigerant containing Dry R, the product safely passes through the gauges/recovery unit, and on to the reclaim tank. During this operation, moisture present in the manifold gauge set and recovery equipment is removed.

■ HOW DOES DRY R™ IMPROVE THE PERFORMANCE OF AN AC/R SYSTEM?

By chemically disassembling the H₂O molecule and removing up to 60 drops of water, dangerous levels of moisture are removed, reducing call backs on warranty coils & compressors. This reaction also forms chemical agents which boost oil and refrigerant performance, critical to new or old systems, providing true energy savings to home owner.

Example: A 3 ton air conditioner containing 60 drops of water can add \$16.80 to normal operating costs/ month. Adding 1 can of Dry R will reduce this \$ cost within 24 hours. (Based on .17 cents/ Kilowatt hr)

■ HOW LONG WILL IT REMAIN ACTIVE IN THE SYSTEM?

It will remain active, eliminating moisture, until the system is opened up for repair, or if a major loss of refrigerant and oil occurs.

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