

- Prevents refrigerant leaks and seals existing leaks in air conditioning and refrigeration systems
- Eliminates expensive leak search and repair
- One can treats up to 5 ton systems
- Travels with refrigerant to find leaks fast
- Utilizes a reusable hose

Application:

One of the most difficult and costly tasks for the service technician is servicing a system that has a refrigerant leak. And given today's requirements for leak management and repair, it is very important that leaks be repaired. A/C EasySeal addresses the need for a quick and reliable method to seal these problematic leaks. In fact, it can be used to prevent leaks.

Description:

A/C EasySeal is designed to prevent as well as repair leaks anywhere in the system, including condensers, evaporators, copper lines, and soldered joints. It is easily injected into the system, traveling with the refrigerant, searching for leaks. It will react with moisture and air that are naturally present at a leak, forming a secure seal. A/C EasySeal is compatible with the refrigerant, oil and all system materials and it will not react until it comes into contact with the air and moisture at the leak, forming a seal.

A/C EasySeal is a time saver. It finds leaks quickly and seals them, saving the time and money required in searching for the smallest leaks. With A/C EasySeal, the contractor is able to just add a can to the system and be confident the leak has been fixed and move on to the next job.

In most cases, one can will seal systems that have lost all refrigerant in as little as seven days and is designed for large systems up to 5 tons.

Total System Protection

A/C EasySeal



Packaging

- | | |
|-----------------------------|----------------|
| 3 oz. pressurized can | 4050-06 |
| "2+1" Display Pack | 4050-02 |
| A/C Piercing Valve and Hose | 4051-99 |

Directions for Use:

Read all directions and warnings before using.

Note: For professional use only. Wear safety glasses and protective gloves. Use in accordance with all regulations and proper service practices in handling of refrigerant.

Important: A/C EasySeal can be used to seal most refrigerant leaks, up to and including those where the entire charge is lost in 7 days. Additionally, the following should be addressed prior to charging A/C EasySeal:

1. Other than for the loss of refrigerant due to the leak, the system should be operating within reasonable pressure/temperature conditions and parameters.

2. System should be free of contaminants. If necessary pull vacuum to remove non-condensables. If moisture was present, it may be advisable to use A/C EasyDry. And if an acid condition is known to exist, use Rx-Acid Scavenger.
3. If necessary (i.e. restrictions due to plugging), change drier cores.
4. If the refrigerant leak was considerable, it may be appropriate to add refrigerant just to bring system closer to normal operating conditions. Final refrigerant charging or “top-off” will still be necessary as a last step.
5. A/C EasySeal should only be installed as instructed and only on low side. Can is pressure rated to 270 psi, and exceeding this pressure could result in rupture and possible injury.

Failure to address these items or conditions may result in damage to the system or the compressor.

1. Shake can well. Be sure system is turned on and running.
2. Be sure piercing valve handle is turned fully counter clockwise, and then attach piercing valve to can, as shown in Figure 1. Be sure not to cross thread or over tighten.

3. Attach other end of charging hose to low side service port. As this is done, there will be a very small release of system charge that will purge air from the hose. Additionally, where permissible by law, the hose can be purged by slightly unscrewing the piercing valve from the can allowing the system’s charge to enter and purge the hose.
4. Turn piercing valve handle fully clockwise to pierce can. Invert can and hold above low side service port.
5. While inverted, turn piercing valve handle counter clockwise to open valve and install A/C EasySeal. Allow approximately 1 minute for product to completely enter the system.
6. Once product is dispensed, turn piercing valve handle fully clockwise and then remove hose from low side service port. If necessary, recover any refrigerant that may have entered the can and hose. **Retain hose for future installations and dispose of can properly.**
7. Charge system with refrigerant to achieve correct system pressure. DO NOT overcharge.
8. Run A/C system continuously for a minimum of 1 hour to allow product to fully circulate through system.

FIGURE 1



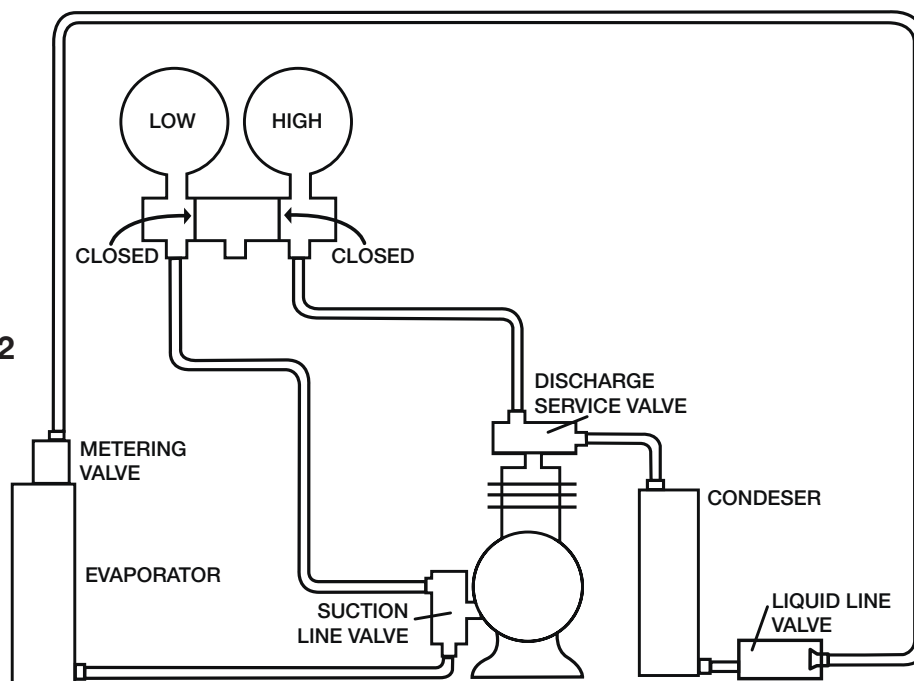
R-410A INSTRUCTIONS:

IMPORTANT: Product is to be injected only after the system has been pumped down and the low side has a pressure of 40-50 psi. Since low side pressures in a R410A system are higher than the pressure in the A/C EasySeal can, you must first pump down the system to inject the project. To do so, follow the below instructions.

1. Secure electric power to the unit and connect the refrigerant manifold, as shown in Figure II.
2. Close the liquid line valve and turn the compressor on to start pumping refrigerant into the condenser.
3. Operate the compressor until the suction (LO) gauge on the manifold shows a pressure of 40 to 50 psi (lower pressure than what is in the can). **CAUTION:** Do not pump completely down as low pressure cut-off or high pressure relief could engage.
4. When the pressure on the suction (LO) gauge is between 40 and 50 psi, turn the compressor off and immediately close the suction line valve. This procedure traps most of the refrigerant in the condenser allowing you to inject the A/C EasySeal. (Be sure the pressure in the low side is between 40 and 50 psi)
5. Shake can well. Be sure piercing valve handle is turned fully counter clockwise and then attach piercing valve to can. Be sure not to cross thread or over tighten.
6. Attach other end of charging hose to low side service port. As this is done, there will be a very small release of system charge that will purge air from the hose. Additionally, where permissible by law, the hose can be purged by slightly unscrewing the piercing valve from the can allowing the system's charge to enter and purge the hose.
7. Turn piercing valve handle fully clockwise to pierce can. Invert can and hold above low side service port.
8. While inverted, turn piercing valve handle counter clockwise to open valve and install A/C EasySeal. Allow approximately 1 minute for product to completely enter the system.
9. Once product is dispensed, close piercing valve and remove hose from low side service port.
10. After the charging hose is disconnected from the system, open the valves to allow the refrigerant back into the rest of the system. Charge system with refrigerant to achieve correct system pressure. **DO NOT** overcharge. Run the A/C system continuously for 1 hour to allow product to fully circulate through system.

REUSABLE PIERCING VALVE AND HOSE, DO NOT DISCARD.

FIGURE 2



Frequently Asked Questions:

What is A/C EasySeal?

It is a sealant formulated specifically to seal refrigerant leaks in air conditioning and refrigeration systems.

Once in the system, how does A/C EasySeal behave?

It travels with the refrigerant, behaving much like a vapor or mist.

How does A/C EasySeal work?

It is activated by moisture and air, both of which will exist at a leak. Once activated, it forms an epoxy-like seal at the site of the leak. Its behavior is analogous to blood clotting to form a scab.

How long does it take to set?

Approximately 20 minutes.

How much A/C EasySeal should I use?

One can may be used in systems up to 5 tons. It is important to understand the size of the leak and not system tonnage will ultimately determine how much sealant is needed. Generally, if system doesn't leak its entire charge in 7 days, A/C EasySeal will repair it easily enough.

How large of a refrigerant leak will A/C EasySeal repair?

As stated above, if the leak does not empty the system within 7 days, A/C EasySeal will repair it easily enough.

When should A/C EasySeal be used?

Whenever a leak exists and traditional methods of finding and repairing it are costly or not practical. Also, it can be used to prevent leaks by sealing them as they occur.

What if there is moisture in the system?

There will be no impact. A/C EasySeal needs both moisture and air to activate. But, the use of A/C EasyDry to remove the moisture to avoid moisture related problems is recommended.

Is A/C EasySeal compatible with refrigerants?

Yes, it is fully compatible and miscible with CFC's, HCFC's, HFC's and hydrocarbons.

Will A/C EasySeal clog valve core or Schrader valve?

No it will not. But, if core is leaking during normal system operation, A/C EasySeal will seal the leak. When used again, the reconnection process will break the seal.

Will A/C EasySeal harm the compressor or other system components?

No, it will not. It is compatible with all system materials, including materials of construction, refrigeration oil, refrigerant, compressor windings, etc.

Is the A/C EasySeal proven or established?

Yes, it has been used for 8-10 years in various industries, including the military (i.e. submarine a/c systems) and the space program.

What size of hole will A/C EasySeal repair?

It will seal the smallest micro-pore holes up to very large holes where the refrigerant is lost in 7 days.

Does the volume of system's refrigeration oil affect using the product?

No, it does not since the product travels with the refrigerant.

How small of a system can A/C EasySeal be used in?

Can be used in systems as small as 6,000 Btu/h, but consider using a partial can on systems less than 18,000 Btu/h.

How long will A/C EasySeal remain in a system?

Indefinitely.

What happens if system has catastrophic rupture or failure?

A/C EasySeal exits with refrigerant.

What happens to A/C EasySeal if the refrigerant must be reclaimed?

Nothing, unless moisture and air are encountered. However, the refrigerant should be reclaimed as used refrigerant.

Can A/C EasySeal be used in R-410A systems? In heat pumps?

Yes to both.

Will A/C EasySeal damage recovery equipment?

No, as long as the equipment is properly maintained to the manufacturer's specifications. And the equipment should be free of moisture and air. Refrigerant should be reclaimed as used refrigerant.

Can multiple cans of A/C EasySeal be used in larger commercial systems?

Yes, but it is recommended that one start with one can and monitor the system thereafter. Remember, it is the size of the leak, and not tonnage, that determines how much sealant is needed.

