SPECTROLINE®
HVAC/R

COOLSEAL™ APPLICATION RATIO

TECHNICAL BULLETIN #195

Suggested Sealant to Oil Ratio

Cool Seal is available in conveniently sized packages to allow for it to be dosed into smaller systems quickly and easily. For most of these applications, a service technician would be aware of the cooling capacity of the system to be treated, so the Cool Seal instructions provide application ratios based on that information.

However, the Cool Seal product is an oil-based additive, and as such it can be most economically dosed into a system if the system's oil charge is known. There is a loose correlation between compressor oil charges and refrigerant capacity, but there are many variables involved that make it impossible to know exactly how much oil is in equipment based on cooling capacity alone. Due to this, the Cool Seal instructions involving refrigeration capacity usually result in a system being charged with more sealant than is absolutely required, as the capsules and cartridges have to be able to treat a wide range of system sizes based on cooling data alone.

Cool Seal Product Line

"If the system's oil charge is known, the amount of Cool Seal required can be calculated exactly, resulting in the least cost for good performance."

If a system's oil charge is known, the most economical dosage of Cool Seal can be determined by using a volumetric sealant to oil ratio of 1:30, or 3.25%. This amount represents the minimum amount of Cool Seal required to perform properly.

- Smaller doses will still work, but not as quickly as if a system were to be properly dosed.
- Larger doses are safe and may perform slightly better, but not to a large degree.

CONCLUSION

Our experience with the Cool Seal product have shown that a 1:30 ratio is safe, effective and economical.

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