



**COST-SAVING TECHNOLOGY**  
for A/C & Refrigerant Systems

Chill ❄️

[WWW.CHILL-AC.NET](http://WWW.CHILL-AC.NET)

# KICKSTART YOUR CAR'S A/C SYSTEM

- Increases A/C Efficiency
- Saves Fuel – Saves \$\$\$\$\*
- Protects the Environment
- Extends A/C System Life
- Improves A/C Cooling Temp
- Reduces Maintenance Costs
- Reduces A/C Component Damage
- Safe & Effective as shown in Independent Lab Tests



## WHAT IS CHILL?

Cooling systems start to rapidly lose their efficiency because of oil migration and buildup, costing you more money.

We reverse and permanently prevent this build-up with a simple one-time application of our patented restorative agent, which was specially engineered for this purpose by a Dupont surface chemist.

## HOW DOES IT WORK?

The compressor compresses refrigerant causing it to become hot, high-pressure gas (red). This hot gas runs through a set of coils so it can dissipate its heat, and it condenses into a liquid in the process.

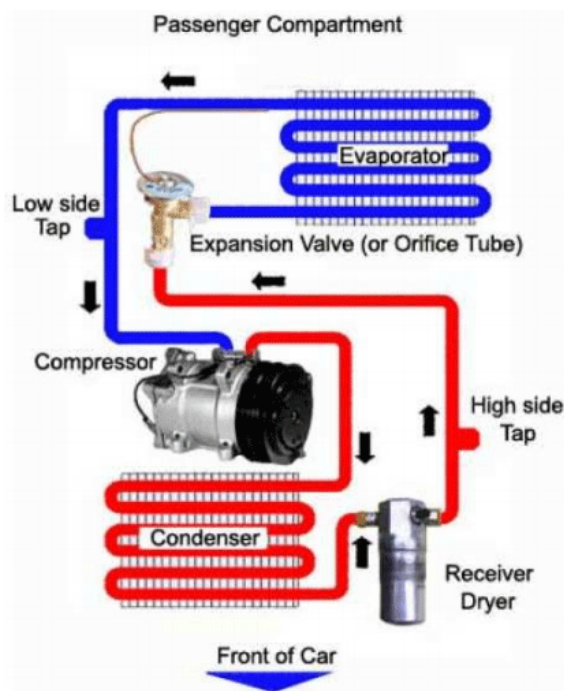
The refrigerant runs through an expansion valve, and in the process it evaporates to become a cold, low-pressure gas (blue). The cold gas runs through a set of coils that allows the gas to absorb heat and cool down the air inside the vehicle.



The cold gas runs through a set of coils that allows the gas to absorb heat and cool down the air inside the vehicle.

Mixed in with refrigerant is a small amount of lightweight oil. This oil lubricates the compressor.

This oil, after a period of time begins to accumulate inside these coils (blue and red) and begins to restrict heat transfer. Chill mixes with the existing oil, removes this build up and helps the system repair its loss of efficiency.



## WHAT ARE SOME OF THE BENEFITS?

- Protects the environment
- Increases A/C system efficiency
- SAVES fuel – SAVES \$\$\$\$\*
- Reduces maintenance & repair costs
- Does not void Manufacturer's warranty
- Eliminates oil build up in A/C lines
- Prevents oil build up in old & new systems
- Permanently protects your A/C system
- Extends A/C seal life & tightens the system

## The Chill® Solution

When Chill® is introduced into the system its highly conductive and electromagnetic molecules embed themselves into the space lattice of the metal thus filling the grain boundary and stabilizing the metal surface. This molecular polarization will displace the isolative layer of non-polarized molecules and will not allow the refrigerant oil buildup to reform. The result is a surface free of stagnant oil hindering the heat transfer rate of the metal. Chill® molecules greatly increase the heat transfer rate through electromagnetic heat propagation. Chill® reduces friction in the flow of the refrigerant.

### BEFORE / AFTER INSTALLATION:

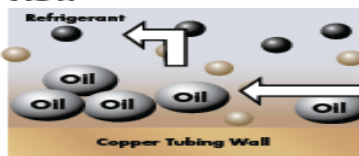
#### Before Installation:

##### Surface Condition



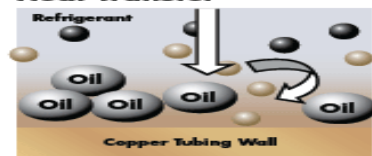
Over time, an oil layer forms on the heat exchanger wall creating an insulating layer that impedes heat transfer.

##### Flow



Oil film buildup inhibits flow and can reduce the amount of refrigerant available.

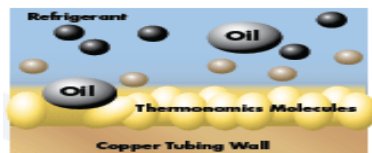
##### Heat Transfer



The efficiency of heat transfer is reduced by the oil layer causing your unit to operate longer to achieve the target temperature.

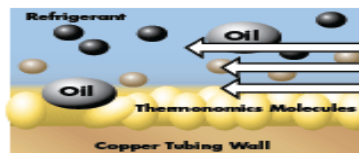
#### After Installation:

##### Surface Condition



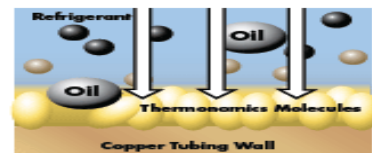
CHILL® dislodges the insulating oil film and bonds electromagnetically to the surface.

##### Flow



CHILL® polarized molecules prevent oil film buildup and improves lubricity by over 1,500%.

##### Heat Transfer



By returning the surface to a like new condition, heat is more easily transferred and run times are reduced.

The **American Society of Heating Refrigeration and Air Conditioning Engineers**, known as ASHRAE, reports that oil molecules from the refrigerant oil stick to all the metal surfaces inside the system forming a stagnant oil film which migrates throughout the system. This causes a reduction in the efficiency of most equipment of 2-8% per year. Over the years, this will result in considerable internal damage to the system and cause a great deal of friction. This will dramatically affect the heat transfer properties of the equipment, causing higher electric costs. By increasing the heat transfer in HVAC and refrigeration systems **CHILL®** can save up to 20% or more off the cooling portion of your energy bill.



# Chill

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