



Benefits of use of ColdAir™

- Produces colder air vent temperatures due to increased efficiency of the A/C system.
- Drastically reduces friction & wear in the compressor-particularly dry start-up wear
- Increases oil lubricating capability Increases oxidation resistance of refrigeration oil
- Inhibits corrosion/rust and leaves no deposits
- Increases protection of compressor seals
- Reduces maintenance and down time
- Protects mechanical parts with a molecular bonded lubricant layer
- Will not affect manufacturer's warranty



What is ColdAir™ and what are it's unique features?

ColdAir™ is classified as an intermetallic compound, with activated polar molecules which have been combined with synthetic components into a concentrated oil form. This concentrate is compatible with conventional AC lubricants, refrigerant gases, and ferrous/non-ferrous metal,s and is characterized by superior anti-friction, extreme pressure, load carrying, anti-corrosive and boundary lubrication properties. The ColdAir™ formula's activated agent does not include chemical elements of the "Halogen" group—chlorine, fluorine, sulfur or phosphorous, any of which may combine with hydrogen and form highly undesired (corrosive) acid. ColdAir™ does not contain PTFE (Teflon®) or any other particulate that could either cause corrosion or change mechanical tolerances in an air conditioning system.

How does a ColdAir™ work?

The ColdAir™ technology is specifically designed for the strict requirements of AC lubrication due to the ability to form a protective molecular layer, described as: "a microscopic electrochemical layer, without the introduction of solid particles. The technology, especially developed for air-conditioning compressors, forms a boundary film on metal parts and provides lubrication while protecting parts from friction degradation. The ColdAir™ formula contains an activated polar molecule (highly electrically charged at one end). The charged molecule has a strong affinity for metal, and coats metal surfaces in the compressor with an essentially single-molecule thin layer. This layer not only increases the ability of oil to lubricate moving parts in the compressor, but also displaces the build-up of refrigerant oil in condenser and evaporator coils, thus improving heat transfer of heat exchangers.

How does oil build up affect the efficiency of an AC system?

The long term effect of refrigeration oil build-up is significant to the energy efficiency of an AC unit and is described as: "Oil fouling of the heat transfer surfaces of airconditioning systems, will cause a loss of about 7% efficiency the first year, and 2% per year the following years" (ASHRAE Handbook 1998)

Characteristics of ColdAir™

- Base Oil..... Refrigeration Oil
- Lubricant Miscibility..... (No Change)
- ASHRAE 97- Metal Compatability... (No Issues)
- ASHRAE 86- FLOC Point..... (No Issues)
- ASTM 130- Copper Corrosion..... 1A (Non-Corrosive)
- OSHA CFR 1910.1200..... (Non-Hazardous)

Associative Products

The manufacturer of ColdAir™ also makes a similar product for HVAC/R systems called MaxR100™. For general lubrication applications, MaxR200™ can be added to engines, transmissions, differentials, power steering, hydraulic systems, grease, generators, pumps, transformers, or used straight up as a cutting fluid. Extended a/c life is also a benefit of using this unique technology. Also available is MaxR300™ diesel fuel conditioner, and MaxR300-G™ gas conditioner, which provide substantial fuel savings among their many benefits.



for more information please visit our website at www.lubesolv.com

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