

Coldstar Lubricants for Halogenated Refrigerants

Your Optimal Solution For
HCFC & HFC Refrigeration
Compressor Lubrication

Applications

Coldstar's halogenated refrigerant compressor lubricants are ideal for a broad range of applications:



*Screw
compressors*



*Reciprocating
compressors*



*Scroll
compressors*



*Centrifugal
chillers*



*Transport
refrigeration*

The Perfect Balance for Ideal Lubrication and Lubricant Return

Coldstar's halogenated refrigerant compressor lubricants are designed to provide the highest level of performance and protection possible. This is achieved through our expertise not only in the complex chemistry of lubrication, but also in the mechanics of refrigeration. These lubricants offer balanced solubility with the refrigerant in the system, providing these benefits:

- A low pour point and decreased oil carryover, preventing buildup in the evaporator
- Enhanced wear protection, increasing component life

Competitive formulations typically favor lubricant return over lubrication, or vice versa. Either approach creates significant vulnerabilities.

Problems caused by favoring lubricant return:

- Increased wear and friction, decreasing component life
- Increased oil carryover (more lubricant in the evaporator that needs to be returned to the compressor)
- Typically requires a higher-viscosity lubricant (to compensate for the increased solubility needed to favor lubricant return), possibly requiring an oil pump

Problems caused by favoring lubrication:

- Lubricant getting stuck within the evaporator
- Insufficient lubricant levels within the sump
- Reduced heat-transfer efficiency

Coldstar fluids eliminate all of those problems

Coldstar's technologically advanced formulations provide the ideal balance of lubricant return and lubrication to:

- Avoid the vulnerabilities of favoring one over the other
- Maximize the benefits for refrigeration systems

