

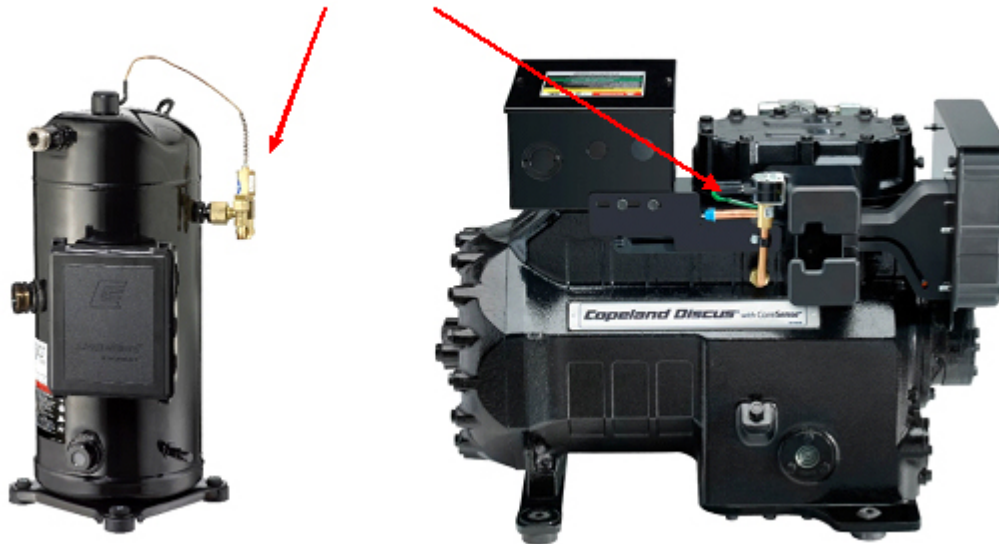


Liquid injection is a means by which a compressor is cooled to allow it to run reliably under difficult high compression ratio conditions normally seen on low temperature applications.

- Liquid refrigerant is piped from the system liquid line to the compressor, and in the case of the scroll compressors, injected directly into the scroll elements.
- Without this cooling, the compression elements can get too hot and the oil breaks down, leading to compressor failures.


The need for liquid injection is determined by the application envelope requirements and refrigerants used, as well as the compressor technology. Liquid injection is becoming more important in low temperature applications as a result of higher heat of compression refrigerants with relatively lower global warming potentials are becoming more popular (R-407A, R-448A, etc.).

Liquid Injection Valve



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