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Product Name :
Refrigeration System with Two Stage Compression

Product Code :
LBNY-0005-11700040



Description :

Refrigeration systems with two-stage compression are used for the generation of particularly low temperatures. Therefore, two compressors are connected in series, with each compressor only having a relatively low pressure ratio. At very low temperatures large pressure differences are required between the evaporator and condenser. In a compressor the volumetric efficiency drops significantly at high pressure ratios. In addition, intercooling between the low pressure compressor and the high pressure compressor reduces the outlet temperature of the compressor to harmless values and improves the efficiency of the compression. This makes a more favourable dimensioning of the low pressure stage compressor possible. Due to the large specific volume it requires a larger capacity at lower drive power.

Technical Specification :

Heat exchange for additional supercooling of the liquid refrigerant
Digital display for temperatures, drive power of the compressors and cooling load power
Closed refrigeration chamber contains evaporator with fan and adjustable electric heater as cooling load
Refrigeration system with two-stage compression
Adjustable intercooling via refrigerant injection
Hermetic low and high pressure compressors.

Laboratory Instrument India

