



Email : sales@laboratoryinstrumentindia.com

Product Name :
Oil Return In Refrigeration Systems

Product Code :
LBNY-0005-11700038



Description :

The Oil Return In Refrigeration Systems is of key importance for the service life of the compressor and thus for a secure constant supply of refrigeration. In the vaporised refrigerant the oil remains liquid in the lower parts of the system. This can result in lack of oil in the compressor. To return the oil to the compressor, a minimum velocity must be maintained in the pipes. A small diameter of the rising pipe results in a high velocity and ensures the return of the oil even under partial load. However, at full load the pressure loss increases due to the small diameter. The velocity in the rising pipe depends on the pipe diameter and the refrigerant mass flow. In most compressors some lubrication oil is carried along with the compressed refrigerant. In the liquid refrigerant the oil is dissolved in the refrigerant and is transported without problems. If the velocity in the rising pipe on the intake side of the compressor is too low (partial load), the oil is not returned to the compressor due to its higher density.

Technical Specification :

Investigation of the oil return to the compressor in refrigeration circuits with oil soluble in refrigerant
Flow rate in the refrigeration circuit adjustable by single or combined operation of the two compressors
Fan speed adjustable
3 Single and 1 double rising pipes from glass in the suction pipe of the refrigeration circuit
Rising pipes selectable via valves
Refrigeration circuit with 2 compressors connected in parallel, condenser with 2 fans, evaporator with fan and thermostatic expansion valve.

Laboratory Instrument India

