



Product Code . ILS-ELE-10596




Domestic Refrigerator Trainer

Description

The Compressor pumps this gas from the evaporator through the accumulator increases its pressure, and discharges the high pressure gas to the condenser accumulator is designed to protect the compressor by preventing slugs of liquid refrigerant from passing directly into the compressor. Continuously circulating, evaporating, and condensing a fixed supply of refrigerant in a closed system accomplish mechanical refrigeration. An accumulator should be included on all systems subjected to varying load conditions or frequent compressor cycling. In the condenser, heat is removed from the gas which then condenses and becomes a high pressure liquid. Evaporating occurs at a low temperature and low pressure while condensation occurs at a high temperature and pressure. A heat exchanger between and the liquid line and the suction line is also an option item which may or may not be includes in a given system design. Between the condenser and the evaporator an expansion device is located.

In some systems this high-pressure liquid drains from the condenser into the liquid storage or receiver tank. On other systems, both the receiver and the liquid line valve are omitted. This Refrigerator Works on simple Vapour Compression Cycle.

Immediately preceding this device is a liquid line strainer/ drier which prevent plugging of the valve or tube by retaining scale, dirt and moisture. The flow of refrigerant into the evaporator is controlled by the pressure differential across the expansion device or, in the case of a thermal expansion valve, by the degree of superheat of the suction gas.

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