

Product Name :
Refrigerator Model

Product Code :
LIM-CAT-L0045-00004



Description :

Refrigerator Model

Technical Specification :

Refrigerator model

Refrigerator model Simple model of a domestic refrigerator for connection.

In refrigeration and freezing combinations evaporators are preferably connected in parallel. To increase the refrigeration capacity, evaporators are operated connected in series. Here different pressure levels in the evaporators can be used to obtain different temperature ranges for refrigeration or freezing.

Includes two separate refrigeration chambers with evaporator and expansion elements. The evaporators can be optionally operated connected in series or in parallel. Two fans in the refrigeration chambers support the achievement of an even temperature distribution.

With heaters cooling loads can additionally be simulated. One of the refrigeration chambers can optionally be operated with an expansion valve or a capillary tube as expansion element. The various operation modes are set via solenoid valves.

An evaporation pressure controller permits in parallel operation the independent adjustment of the temperature level in the upper chamber. All components are clearly arranged on a panel.

Learning objectives/experiments:

Design and operation of a simple refrigeration system

Different expansion elements Operation with capillary tube

Operation with expansion valve.

Operating behavior under load.



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