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**Product Name :**  
Refrigerator Unit

**Product Code :**  
LBNY-0005-1410005



#### **Description :**

Refrigerator Unit Model consists of a refrigeration chamber with a heater as cooling load, evaporator, fan and various expansion elements. The fan supports the achievement of an even temperature distribution in the chamber. Refrigerator Unit Model is part of the HSI training system for refrigeration and air conditioning technology. In combination with the base unit HSI training system refrigeration and air conditioning technology, base unit the operational model of a domestic refrigerator is created. Solenoid valves enable the operation of the system with capillary tube or with expansion valve. All components are clearly arranged on a panel. The model is plugged onto the base unit, secured using fasteners and connected with refrigerant hoses to become a complete refrigeration circuit. The software offers the option to simulate faults. Temperatures and pressures in the system are recorded by sensors and displayed dynamically in the software. A cooling load can additionally be simulated with the heater. The operation of individual system components, here the temperature control, fan, heater, compressor and solenoid valves, takes place via the software. The effect of parameter changes can be tracked online in the log p-h diagram.

#### **Technical Specification :**

Model of a refrigerator to plug onto the base unit  
Electric heater to generate the cooling load  
Expansion elements selectable via solenoid valves: expansion valve or capillary tube  
Refrigeration chamber with evaporator, fan and cooling load  
Chamber with transparent front  
Sensors to record temperature and pressure  
The training system with HSI technology.

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**Technical Data:**

Electric PTC heater as cooling load: 210W

Refrigeration chamber, LxWxH: 270x270x220mm

Capillary tube: length 2m

Dimensions and weight:

LxWxH: 850x380x550mm

Weight: 30kg.



**Laboratory Instrument India**