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**Product Name :**  
Refrigeration System With Refrigeration Chamber

**Product Code :**  
LBNY-0005-11700052



#### **Description :**

The test rig comprises of a refrigerating chamber with forced draught evaporator fed by a thermostatic expansion valve, a condensation unit of 250 W; transparent access panel; refrigeration circuit with flow display screen equipped with heat exchanger for subcooling the liquid and the solenoid valve; electric defrost system and control through programmable PLC and timing. Our equipment allows students to visualize and study the process of industrial refrigeration. Despite being a bench top unit, it includes all the essential components of a large scale installation. The unit has been built using modular systems and it can reach a cooling temperature of  $-30^{\circ}\text{C}$ . It includes a drying filter and a liquid storage tank.

#### **Experimental Capability:**

Heat transfer and thermal insulation  
Coolants  
Calculation of thermal loads  
Refrigerating chambers and industrial refrigeration  
Automatic control and instrumentation  
Psychrometric processes (low temperature)  
Refrigerator cycles  
Steam compression

#### **Technical Specification :**

Refrigeration chamber  
Liquid viewer allows  
Control unit includes

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Defrost  
Expansion valves  
Pressure controls  
Evaporator  
Condenser.



**Laboratory Instrument India**