



Email : sales@laboratoryinstrumentindia.com

**Product Name :**  
Vapour Compression Refrigeration Unit

**Product Code :**  
LBNY-0005-1170002



#### **Description :**

The hermetically sealed refrigerant compressor incorporates a brushless three phase DC electric motor that is driven by a variable speed controller. Compressor speed and power supplied is displayed on the PC. The condenser and evaporator are brazed plate heat exchanger and utilize a large common reservoir of water to minimize changes in water temperature during operation. The refrigerant exiting the compressor passes through a condenser, receiver, filter, variable area flow meter, expansion valve and evaporator before retuning to the inlet side of the compressor.

#### **Technical Specification :**

Energy transferred to the evaporator and from the condenser measured independently on the service side of the process.

Complete refrigeration system enabling demonstration of the vapour compression refrigeration cycle.

Hermetically sealed rotary compressor driven by DC motor with three phase BLDC variable speed drive.

Compressor speed under computer control with a wide range of operation from 2000 to 4400 RPM.

Fully instrumented to enable complete analysis of the processes involved and calculation of the changes in performance with operating conditions.

Computer controlled system with automatic recording of process variables using an integral USB interface.

Real time display of super heat calculations.

Real time display of Coefficient of Performance.

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# Laboratory Instrument India

