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**Product Name :**  
Compression Refrigeration Unit

**Product Code :**  
LBNY-0005-125000115



#### **Description :**

Transparent finned tube heat exchangers as condenser and evaporator to observe the phase transitions of the refrigerant  
Investigation of a refrigeration system with different expansion elements  
Refrigeration circuit consisting of a hermetic compressor, condenser, evaporator and expansion element  
Receiver for underfilling/overfilling the system with refrigerant  
Sensors record pressure and temperature  
Expansion valve and capillary tubes of different lengths as expansion elements  
Compressor equipped with two pressure switches.

#### **Technical Specification :**

Compressor  
Refrigeration capacity: 372W at 7,2/32°C  
Power consumption: 213W at 7,2/32°C  
Condenser and evaporator with fan  
Max. Volumetric air flow rate evaporator: 180m<sup>3</sup>/h  
Max. Volumetric air flow rate condenser: 300m<sup>3</sup>/h  
Receiver for refrigerant: 1,3L  
Capillary tubes: 1,5m, 3m, 6m  
Measuring ranges  
Flow rate: 2...18m<sup>3</sup>/h  
Electric power consumption: 0...1000W  
Pressure: -1...9bar / -1...24bar

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Temperature: 4x -40...150°C, 1x -100...100°C.



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