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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: 180m³/h
Max. Volumetric air flow rate condenser: 300m³/h
Receiver for refrigerant: 1,3L
Capillary tubes: 1,5m, 3m, 6m
Measuring ranges
Flow rate: 2...18m³/h
Electric power consumption: 0...1000W
Pressure: -1...9bar / -1...24bar

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



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