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Product Name :
Compressed Air Dehumidification Training Plant

Product Code :
LBNY-0005-14100014



Description :

The demonstrates the importance of drying air before it is distributed to the users sites.
The has been designed and manufactured to incorporate all current safety standards.
The refrigerant used complies with anti-pollution legislation.
The Compressed Air Dehumidification Training Plant has been designed for the study of the dehumidification process for compressed air.
It also allows students to study the psychrometric properties of compressed air.

Experiment:

Studying the operation of an expansion valve
Plant start-up and system monitoring using the protection and safety devices incorporated into the pilot plant.

Investigating system behaviour and reactions with the variation of:
Plotting the refrigerant cycle on a refrigerant pressure-enthalpy diagram
Thermostat set point
Air flow at condenser.

Technical Specification :

Obtaining data readings and calculation of:
Ideal and actual Energy Efficiency Ratio
Volumetric compressor efficiency
Heat balances for the evaporator, condenser and compressor
Refrigerant mass flow

Specific examination of the characteristics of compressed air after it has passed through the filters and refrigerant circuit
Analysing the thermodynamic characteristics of compressed air with determination of dew point and water content.



Laboratory Instrument India