

Product Name :
Astra Scientific Bench Top Vapour Absorption Refrigeration Trainer

Product Code :
RefrigerationLab0004



Description :

Astra Scientific Bench Top Vapour Absorption Refrigeration Trainer

Technical Specification :

The basic principle is demonstrated in the experimental unit with the example of an ammonia-water solution with the ammonia acting as refrigerant.

Absorption refrigeration systems operate using thermal energy e.g. from industrial waste heat or from solar collectors. These systems use the principle of liquids evaporating already at low temperatures when pressure is reduced.

In process technology systems the resulting waste heat can be used for cooling. In small mobile systems, such as a camping refrigerator or minibar in a hotel, the required heat is generated electrically or by gas burner. Another benefit of absorption refrigeration systems is their silent operation.

FEATURES:

- Demonstrate the basic principle of an absorption refrigeration system
- Absorption refrigeration system and its main components

- Operating behavior under load
- To find out Refrigeration effect
- To find out coefficient of performance

SPECIFICATION:

- Working medium: ammonia-water solution

Auxiliary gas: hydrogen

Electric heater: 125W

Evaporator heater, adjustable: 50W

- Measuring ranges

Temperature: 4x -80...180°C

Power: 0...150W

- Required for operation

230V, 50Hz, 1 phase

230V, 60Hz, 1 phase



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