

**Product Name :**  
Vapour Absorption Refrigeration Trainer**Product Code :**  
RAC0004 LAB ENGINEERING**Description :**

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.

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

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:**

Absorption refrigeration system and its main components

Demonstrate the basic principle of an absorption refrigeration system

Operating behavior under load

To find out Refrigeration effect

To find out coefficient of performance

**SPECIFICATION:**

Auxiliary gas: hydrogen

Electric heater: 125W

Evaporator heater, adjustable: 50W

Working medium: ammonia-water solution

---

Measuring ranges :  
Temperature: 4x -80...180°C  
Power: 0...150W  
Required for operation :  
230V, 50Hz, 1 phase  
230V, 60Hz, 1 phase

 **LAB ENGINEERING**

**Elab Engineering Equipments Manufacturers**