

GAS ABSORPTION AND DESORPTION

RU 094

Description:

Gases produced in various industrial processes are often mixed or contain impurities. Therefore, before using these gases in the next processes, the impurities must be separated. This is done in the absorption tower. Absorption is a process in which a component is transferred from the gas phase to the liquid phase with which it is in contact. In fact, absorption is the transfer of mass from the gas phase to the liquid phase. If mass transfer takes place in the opposite direction, then the action is called desorption. This device includes a packed tower installed on a structure along with necessary components to store solutions, transfer feed and measure temperature and other related applications.

Specifications:

- Glass column with glass rushing fill on it
- Fiberglass feed and product tank
- Pump
- Digital sensors for measuring temperatures
- Rotameter or regulator for air, water and CO₂
- Connections, pipes and valves
- Co₂ tank
- Inclined manometer
- Electrical control panel with displays and switches
- Wheeled carbon steel structure
- Installation and training video included
- Instructions manual included
- 10-year warranty

*Compressed air line or a compressor is required for operation

Note: Direct contact with the sales department is required to confirm the last updated technical specifications and pictures.

Applications:

1. Study gas absorption and desorption in packed column
2. Estimate pressure drop in process of absorption and desorption

Required For Operation:

- 220V Single Phase Electricity
- Urban Water Drainage
- Compressed Air Line Or 80L Compressor (In case these Items are not available in the laboratory they can be purchased separately)
- Desirable Temperature (°C): 10-30
- Relative Humidity: 15% - 80%

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UNIT OPERATION



Dimensions (L*W*H) mm:1350x 650 x 2000

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