

**Product Name :**  
Isothermal Batch Reactor**Product Code :**  
ALABS-A56-019**Description :****Isothermal Batch Reactor**

A batch reactor is a closed system with no input and output streams. A batch reactor can operate under conditions like Isothermal (Temperature of Reaction Mass remains constant), perfectly mixed (composition of reaction mixture is uniform throughout), and constant volume (volume of the reaction mixture within the reactor remains constant, there is no appreciable change in the density of reaction mass). This set-up is used to study a non-catalytic homogeneous reaction under isothermal condition.

The set up consists of a Reactor fitted in a constant temperature water bath. One stirrer is fitted for mixing the reactants in reactor and other is fitted in water bath to keep the uniform temperature throughout in the bath. The temperature of bath can be maintained from ambient to 90 C with the help of Digital Temperature indicator Cum Controller. Samples can be taken out with the help of a sampling pipette

## Experiments

- To study the progress of a Chemicals reaction and determine the kinetic parameters
- To determine the effect of temperature on Reaction Rate Constant

## Utilities Required

- Water Supply & Drain
- Electricity 1Phase, 220 V AC, 1.5kw, Single
- Instruments, Laboratory Glassware and Chemicals required for analysis as per the system adopted



## Equipments Exporters

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