

Product Name :
Isothermal Semi Batch Reactor

Product Code :
Reaction0010



Description :

Isothermal Semi Batch Reactor

Technical Specification :

Isothermal Semi Batch Reactor

Isothermal Semi Batch Reactor is same as the batch Reactors. However, they take place in single stirred tank. Modification is done in the Semi Batch Reactor for reactant addition and/or product removal in time.

Through Semibatch Reactor, reactant is partially filled with the flexibility of adding more as time progresses.

This device is a semi-closed device including one enter circulation.
It is operated below prerequisites like Isothermal (Temperature of

Response Mass continues to be consistent) and completely blended (composition of response combination is uniform all the way through).

This set-up is used to review a non-catalytic homogeneous response underneath isothermal situation. This arrangement contains a Reactor geared up in a continuing temperature water tub. Earlier than beginning the response the reactor charged with measured amount of 1 reactant. From a feed tank, any other reactant is fed to the reactor. The usage of a sampling pipette samples may also be taken out for diagnosis after mounted interval. Rotameter is supplied to measure the rate of flow of fluids. The magnetic power pump is used for circulation of feed. One stirrer is equipped for mixing the reactants in reactor and other is equipped in water tub which maintains the uniform temperature in the tub. The temperature of tub will also be maintained from ambient, to 70C with the lend a hand of Digital Temperature indicator Cum Controller.

Experiments

- To review a 2nd order sponification response in a Semi-Batch Reactor
- To decide the Response Fee Consistent

Utilities Required

- Water Provide & Drain
- Electrical energy 1.5kw, Single
- Gadgets, Laboratory Glassware and Chemical substances required for prognosis as per the device adopted

Electrical and Electronics

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