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Product Name : Isothermal Semi Batch Reactor	Product Code : NLAB-EDUCATIONTVET16027
Description :	
Isothermal Semi Batch Reactor	
Technical Specification :	
Isothermal Semi Batch Reactor -	
The compressed air is used for circulation of feed. The temperature of the bath can be maintained from ambient to 70oC with the help of Digital Temperature indicator Cum Controller. Pressure Regulator, Pressure Gauge, and Safety Valve are fitted in the compressed air line. An isothermal semi-batch reactor is a semi-closed system with one input stream. 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	ì.
Before starting the reaction the reactor is charged with a measured quantity	of one reactant.
From a feed tank, another reactant is fed to the reactor. Using a sampling pipette samples can be taken out for analysis after a fixed interval. One stirrer is fitted for mixing the reactants in reactor and other is fitted in a water bath to keep the uniform temperature throughout in the bath.	

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Rotameter is provided to measure the flow of Chemicals.
It is operated under conditions like Isothermal (Temperature of Reaction Mass remains constant) and perfectly mixed (composition of the reaction mixture is uniform throughout).
Utility Required:-
Water supply and drain.
Electricity-1.5kw, Single Phase.
Compressed Air Supply at 2 Bar, 0.25 CFM.
Instruments, Laboratory wares, and Chemicals required for analysis as per the system adopted.
Technical Details:-

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Water Bath: Material Stainless Steel, Double wall, insulated with Ceramic Wool.
Piping: Material Stainless Steel and PVC.
Pressure Regulator: 0-2 Kg/cm2
Pressure Gauge: Bourdon type 0-2 Kg/cm2
Reactor: Material Stainless Steel, Capacity 3 Ltrs. (approx).
Stop Watch: Electronic
Heater: Nichrome wire Heater
Stirrer: Material Stainless Steel Impeller and shaft coupled with FHP motor
Feed Tank: Material Stainless Steel, Capacity - 20 Ltrs.
Feed Circulation: By compressed air.
Flow Measurement: Rotameter.

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Control panel comprises of Digital Temp. Controller: 0-199.9°C

With Standard make on/off switch, Mains Indicator etc.

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