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Product Name : Continuous Stirred Tank Reactor	Product Code : NLAB-EDUCATIONTVET16023
Description:	
Continuous Stirred Tank Reactor	
Technical Specification :	
Continuous Stirred Tank	
This type of reactor is known as mixed flow reactor.	
School Lab Instrument CSTR is fitted with a stirrer for proper mixing.	
This set-up is used to study a non-catalytic homogeneous second order liquid phase reaction under ambient condition. The flow rate can be adjusted by operating the needle valves provided on respective Rotameter.	
The compressed air is used for circulation of feed.	
An ideal steady state flow reactor the contents in the reactor are well mixed throughout.	d and have a uniform composition

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The exit stream has the same composition as the fluid within the reactor.
From the top outlet of it, samples are collected for analysis.
Pressure Regulator, Pressure Gauge, and Safety Valve are fitted in the compressed air line.
The set up consists of two feed tanks through which two reactants are fed to the reactor.
Rotameters are provided to measure the individual flow of Chemicals.
Experimentation:-
To study the progress of a suitable Chemical Reaction Engineering Lab Equipments CSTR.
To determine the Reaction Rate Constant.
Utility Required:-

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Capacity - 20 Ltrs.
Pressure Regulator: 0-2 Kg/cm2
Reactor: Material Stainless Steel, Capacity 2 Ltrs (Approx).
Stirrer: Stainless Steel Impeller and shaft coupled with FHP Motor.
Pressure Gauge: Bourdon type 0-2 Kg/cm2
Stop Watch: Electronic
Control Panel comprises of Standard make the on-off switch, Mains Indicator etc.
Piping: Stainless Steel and PVC.
Reactor -

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