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Product Name : Emulsion Polymerization Reactor	Product Code: NLAB-EDUCATIONTVET16034
Description :	
Emulsion Polymerization Reactor	
Technical Specification :	
Emulsion Polymerization Reactor -	
Polymerization is carried out under the atmosphere of air free nitrogen.	
Apparatus can be used to generate the kinetic data for emulsion	
polymerization under various operating conditions like temperature, emulsifier concentration etc. The emulsion is of the type: oil in water,	
the monomer is oil soluble & the initiator is water-soluble & an emulsifier is used to create a stable emulsion. Air has to be	
evacuated using a vacuum pump to create vacuum up to 30mm of Hg befo passing the nitrogen supply. Initiator from the reservoir is supplied to	re
the reactor under pressure.	
The set-up is used to carry out the emulsion polymerization involving polym	nerization of an unsaturated monomer
like Styrene.	
Metered quantity of nitrogen gas from a cylinder passes through a	
de-oxygenation column & allowed to enter the reactor. The set-up is complete & self-contained with sampling ports.	

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The set-up consists of jacketed type SS reactor fitted with a variable speed agitator & baffles.
Hot water from a digitally controlled water bath is circulated in the jacket using a pump.
Experimentation:-
Effect of RPM on conversion
Effect of emulsifier concentration.
The parameter studies are conducted involving studies of:
Effect of Initiator concentration.
Effect of monomer concentration

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Utilities Required:-	
Electricity-1.5kw, Single.	
Va auum Duman	
Vacuum Pump.	
Water Supply.	
Floor Drain.	
High purity N2 gas.s.	

Naugralabequipments

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