

Condensation Polymerization Set-Up



Product Categories: [Chemical Reaction Engineering Lab](#), [Engineering Equipment](#)

Product Page:

<https://www.labappara.com/product/condensation-polymerization-set/>

Product Description

Condensation Polymerization Set-Up

Technical Description:

Condensation Polymerization kettle is used to carry out a condensation polymerization reaction under batch condition. Polymerization reaction can be acid catalyzed or self-catalyzed. The set-up can be used to measure the extent of reaction & also the reaction rate constant. The set-up consists of jacketed type SS reactor fitted with variable speed agitator & baffles. Reactor is fitted with Ni-chrome wire heaters and temperature is controlled by digital temperature controller. Metered quantity of nitrogen gas from a cylinder, allowed entering in the reactor. Set-up is complete & self-contained with sampling ports.

The top cover can be removed for cleaning purpose. Feed is fed from top through a funnel provided with S.S. Ball Valve. Vapours are allowed to enter in the shell of condenser and cooling water is allowed to pass through the tube and condensate is collected.

Technical Specifications:

Condenser : 18 long 1., Concentric tube type

Reactor: Material Stainless Steel, Volume- 1 Ltrs. (Approx.)

Water Bath: Material Stainless Steel, Double wall, insulated with Ceramic Wool.

Heater: Ni-chrome wire Heater

Stirrer (2 Nos.): Stainless Steel Impeller and shaft coupled with FHP motor.

Stop Watch: Electronic

Temp. Sensor: RTD PT-100 type