



Product Name:

Condensation Polymerization Reactor

Product Code: ALABS-A17-016



Description:

Condensation Polymerization Reactor

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 Nichrome wire heaters and digital temperature controller controls temperature. 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. An outlet is given to Condenser fitted with a Perken's triangle for collecting the condensate. Vapors are allowed to enter in the shell of condenser and cooling water is allowed to pass through the tube and condensate is collected.

Experiments

 To determine the kinetic parameters of a Condensation polymerization reaction between Pthalic acid and Hexamethylene diamine with &.without acid catalyst

Utilities Required

- · Water supply and drain
- Electricity-I.5kw, Single
- Space 0.7m x 0.7m x 1.0m
- Instruments, Laboratory wares and Chemicals required for analysis as per the system adopted.
- High purity N2 gas



Equipments Exporters

Website: www.equipmentsexporters.com, **Email:** sales@equipmentsexporters.com **Address:** 75, Lajpat Nagar-IV, New Delhi-110024 **Phone:** +91-9311469084