

Product Name :

Isothermal Plug Flow Reactor (Coiled Tube Type)

Product Code :

ALABS-A17-019

**Description :****Isothermal Plug Flow Reactor (Coiled Tube Type)**

In an ideal Plug Flow Reactor {PFTP} there is no mixing in the direction of flow and complete mixing perpendicular to direction of flow. Concentration of reactants varies along the length of reactor but not in radial direction. In case of a coil turbulence is introduced due to frequent change in direction of flow and presence of secondary flow, so a higher value of reaction rate constant is expected in coil tube type plug flow reactor. This set-up is used to study a non-catalytic homogeneous reaction under isothermal condition.

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. The flow rate can be adjusted by operating the needle valves provided on respective Rotameter. The magnetic drive pump is used for circulation of feed. It is a helical coil tube type reactor. Reactants enter at lower end coming out of the top of coil from where samples are collected for analysis

Experiments

- Sponification Reaction Study in straight tube Plug Flow Reactor.
- To determine Reaction Rate Constant

Utilities Required

- Water Supply & Drain
- Instruments, Laboratory Glassware and Chemicals required for analysis as per the system adopted



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