

**Product Name :**  
Combined Flow Reactor**Product Code :**  
ALABS-A17-017**Description :****Combined Flow Reactor**

In a Combined Flow Reactor, the contents are passed through two types of Reactors PFR and CSTR, connected in series. This set-up is used to study a non-catalytic homogeneous second order liquid phase reaction under ambient condition. The set up consists of two feed tanks through which two reactants are fed to the reactors. 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. Pressure Regulator, Pressure Gauge and Safety Valve are fitted in the compressed air line. The Reactants enter at lower end of helical coil tube type reactor coming out of the top of coil again entering to the CSTR which is fitted with stirrer for proper mixing. Arrangement is made for sampling from both the reactors. From top outlet of PFR and CSTR samples are collected for analysis.

**Experiments:**

- Sponification Reactor studies in CSTR/PFR/Combined Reactor.

- To determine the Reaction Rate Constant

**Utilities Required:**

- Compressed Air supply at 2 Bar, 0.5 CFM
- Water Supply & Drain
- Electricity Supply: 1 Phase, 220 V AC, 0.5 kW
- Instruments, Laboratory Glassware and Chemicals required for analysis as per the system adopted



## Equipments Exporters

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