



**Product Code . JL-TWL-9134**

## Plug Flow Reactor (Coiled Tube Type)

### Description

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#### Plug Flow Reactor (Coiled Tube Type)

##### **Description:-**

In an ideal Plug Flow Reactor (Coiled Tube Type) there is no mixing in the direction of flow and complete mixing perpendicular to the direction of flow.

The concentration of reactants varies along the length of the reactor but not in radial direction.

The set up consists of two feed tanks through which two reactants are fed to the reactor.

It is a helical coil tube type 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.

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 the coil tube type plug flow reactor.

The magnetic drive pump is used for circulation of feed.

Reactants enter at the lower end coming out of the top of the coil from where samples are collected for analysis.

This set up is used to study a non-catalytic homogeneous reaction under isothermal condition.

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