



**Product Code . JL-TWL-9144**

## Isothermal Plug Flow Reactor

### Description

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Isothermal Plug Flow Reactor

#### Specification:-

Plug flow reactor is characterized by the fact that the flow of fluid through the reactor is orderly no element of fluid overtaking or mixing with any other element ahead or behind.

#### Experiment:-

To calculate the reaction rate constant  $k$  for given reaction in Isothermal Plug flow reactor

To study of Isothermal Plug flows reactor.

#### Experimental Setup:-

Reactor: Material Stainless steel (SS).

Flow Measurement: 2 No. Pre-calibrated Rotameter

Feed Circulation: By Compressed Air

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Pressure Regulator : 0-2 kg / cm<sup>2</sup>

Feed Tank: 2 No. of stainless steel feed tank

Pressure Gauge : Bourdon type 0 – 2 kgf / cm<sup>2</sup>

Stopwatch: Electronic

Piping: SS, PVC

Product receiver: 1 No. SS tank

Setup Mounting: On sturdy MS stand with powder coated

Water Bath: Material SS, Double Wall, Insulated with glass Wool

Heater: Nichrome wire heater

Digital Temp Indicator : 0 - 200 °C, Indicator cum Controller

Temp Sensor : CR /AL Type.

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