

CRE-7 ISOTHERMAL PLUG FLOW REACTOR



DESCRIPTION : 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

RANGE OF EXPERIMENTS

1. To study of Isothermal Plug flow reactor.
2. To calculate the reaction rate constant k for given reaction in Isothermal Plug flow reactor

EXPERIMENTAL SETUP :

Reactor	:	Material Stainless steel (SS) ,
Flow Measurement	:	2 No. Pre calibrated Rota meter
Feed Tank	:	2 No. of stainless steel feed tank
Feed Circulation	:	By Compressed Air
Pressure Regulator	:	0-2 kgf / cm ²
Pressure Gauge	:	Bourdon type 0 – 2 kgf / cm ²
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.
Stop watch	:	Electronic
Piping	:	SS , PVC
Product receiver	:	1 No. SS tank
Setup Mounting	:	On sturdy MS stand with powder coated

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CHEMICALS REQUIRED : NaOH, Ethyl Acetate ,HCL ,
Phenolphthalein indicator , Distilled water

SERVICE REQUIRED : Air Supply : @ 6 CFM at 4 Kg /cm²

Water Supply : @ 2 lpm

Power Supply : 230 V, 50 Hz, A.C.

SPACE REQUIRED : 1.5 m. (L) x 1.0 m (W) X 1.5 m (H).

WEIGHT : @ 50 Kg