

Product Name :

Isothermal Continuous Stirred Tank Reactor

Product Code :

TWL-CRE-0002

Description :

Isothermal Continuous Stirred Tank Reactor

Technical Specification :

Isothermal Continuous Stirred Tank Reactor -

It has two feed tanks through which two reactants are fed to the reactor.

The magnetic drive pump is used for circulation of feed.

is fitted with a stirrer for proper mixing.

To determine the individual flow of Chemicals, Rotameters are used.

The flow rate can be adjusted by operating the needle valves provided on respective Rotameter.

From the top outlet of it, samples are collected for analysis.

Constant temperature water bath arrangement is provided to conduct the experiment at various temperatures.

Isothermal Continuous Stirred Tank Reactor is used to augment the feasible and reliable bio-process system for the treatment of hydrocarbon-rich industrial wastewaters.

This condition is applicable when we try to use a continuous agitated tank reactor to get the desired output.

The behaviors of CSTR are determined by using a Continuous Ideally Stirred Tank Reactor (CISTR).

These reactors are also known as vat or back mix reactor.

All calculations are based on perfect mixing.

model which helps to get an idea of the key unit operation variables.

Experiment:-

Saponification Reaction study in Isothermal Continuous Stirred Tank Reactor (CSTR).

To determine the Reaction Rate Constant and effect of temperature on it.

Utilities Required:-

Electricity Supply: I Phase, 220VAC, 1.5kW.

Water Supply and Drain.

Instruments, Laboratory Glassware, and Chemicals required for analysis as per the system adopted.

Electrical and Electronics

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