

Product Name :
Tubular Reactor

Product Code :
TEST5179RFQLAB-0004



Description :

Tubular Reactor

Technical Specification :

A small-scale tubular reactor for use with the Chemical Reactor Service Unit capable of demonstrating large-scale behaviour

The 20m long reactor coil is mounted in a clear acrylic vessel through which heating or cooling medium is circulated. Volume of reactor coil is 0.4l

Two heat exchanger coils bring the reactants up to the reaction temperature separately before they are mixed to start the reaction

Fitting points for temperature and conductivity sensors (supplied with the Chemical Reactor Service Unit).

Features & Benefits:

Determination of reaction rate constant using a tubular reactor

Effect of varying the temperature on reaction rate

Effect of varying the reactant concentration on reaction rate

Effect of varying the feed rate

Investigation of the effect of throughput on conversion

Demonstration of the temperature dependence of the reaction and the rate constant

Determination of the residence time distribution

Study of the effect of flow rate on conversion

To determine the kinetic constant of a reaction using an indicator for visually monitoring.



Testing lab instruments India