

Microlabequipment-RTD Studies In Packed Bed Reactor Peristaltic Pump Feed System manufacturer in india (MTCRE-114B)



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Axial diffusion and dispersion of fluid in packed beds are important for design and operation of separation equipment and Chemicals reactors. The tracer technique, the most widely used method for the study of axial dispersion. In stimulus response experimentation, we perturb the system using pulse input of tracer and then see how the system reacts or responds to this stimulus.

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EXPERIMENTATION:

- To plot RTD curve for Packed Bed Reactor.
- To determine the Dispersion No.

UTILITIES REQUIRED :

- **Electricity Supply:** Single Phase, 220 V AC, 50 Hz, 5-15 Amp combined socket with earth connection. Earth voltage should be less than 5 volts.
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Specifications :

- **Reactor Column :** Material Borosilicate Glass capacity 1.2 Ltrs (approx.)
- **Packing :** Rasching Rings, Material Borosilicate Glass. Size 8-10mm (approx)
- **Feed Tank :** Material Stainless Steel, Capacity 20 Ltrs.
- **Piping :** Stainless Steel and Silicon Pipe.
- **Flow Measurement :** Peristaltic Pumps, 1No. (For water).
- **Stop Watch :** Electronic Arrangement is done to inject tracer into the lower end of reactor.

An ENGLISH instruction manual consisting of experimental procedures, block diagram etc. will be provided along with the Apparatus The whole set-up is well designed and arranged on a rigid structure painted with industrial PU Paint.

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