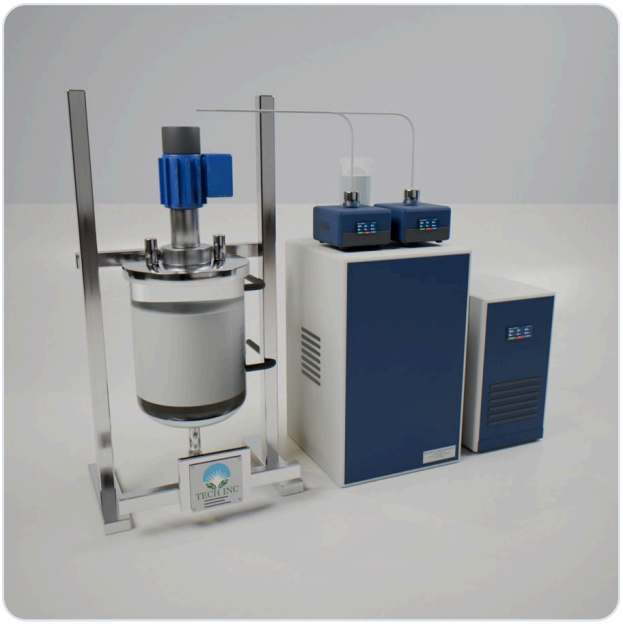
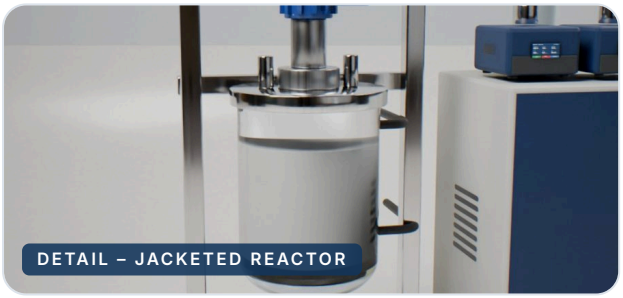
PRODUCT DATASHEET

Emulsion Polymerisation Reactor

Latex and emulsion polymers, from recipe to scale-up





DETAIL – JACKETED REACTOR

OVERVIEW

The Tech Inc. Emulsion Polymerisation Reactor makes latex and emulsion polymers under controlled feed and temperature. Monomer pre-emulsion and initiator are dosed into a jacketed, stirred reactor by metering pumps controlled by balances, while a circulator holds the batch temperature and the controller logs every feed, temperature and stirrer value.

MODELS AND CONFIGURATIONS

- **Glass reactor** – 1 to 20 litres, atmospheric.
- **Pressure reactor** – stainless, for gaseous monomers.
- **Parallel set** – several small reactors.

TYPICAL DESIGN DATA

Model	TI-EPR-20 series
Volume	About 1 to 20 litres
Temperature	About −20 to 150 °C with circulator
Feeds	2 or more, balance-controlled
Pressure	Atmospheric (glass) or up to about 20 bar (stainless)

APPLICATIONS

Paints and coatings binders, adhesives, paper and textile latexes, polymer research and process development.

KEY ADVANTAGES

- **Repeatable** – balance-controlled feeds
- **Controlled** – temperature and stirring logged
- **Scalable** – same control at pilot scale
- **Safe** – inerting and relief

Designed and built by Tech Inc. · **Part of the Davey Group since 1990**

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