

**Coflore<sup>®</sup>**  
Flow Reactors



# Coflore® Flow Reactors

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## Dynamic flow reactors for process development and scale up

Coflore dynamic mixing generates efficient mixing without mechanical seals, baffles or rotating shafts. Mixing and plug flow are substantially independent of reaction time, tube length or tube diameter. This gives it versatility and greatly simplifies scale up.



### High performance - Versatility - Scalability

- Excellent micro and macro mixing
- Low axial dispersion for good plug flow
- High heat and mass transfer coefficients
- Low pressure drop from simple geometry
- Suitable for clean fluids, immiscible liquids, gas/liquid mixtures and slurries
- Easy to clean, suitable for GMP applications

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## Agitated Cell Reactor (ACR)



The Coflore ACR is a low throughput dynamic flow reactor. It uses 10 discrete stages to maintain orderly (plug) flow for reaction times from 10 seconds to 10 hours.



- Capacities from 10 to 100 ml
- Multistage addition and sampling
- Integral heating and cooling
- Multistage temperature monitoring
- Operation up to 10 bar

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## Agitated Tube Reactor (ATR)

The Coflore ATR is a dynamic plug flow reactor. High radial mixing with low axial dispersion maintains excellent performance for reaction times from 10 seconds to >10 hours.

- Capacities from 100 ml to 10 litres\*
- Multistage addition and sampling
- Integral heating and cooling
- Multi stage temperature control and monitoring
- Operation up to 80 bar



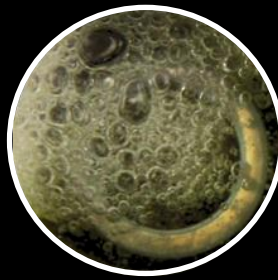
\*Higher capacities built to order

# Applications

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Liquid



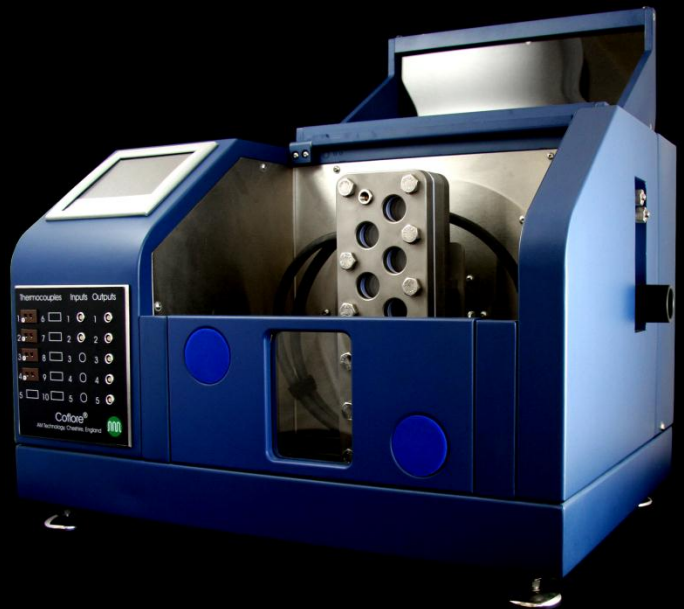
Gas / Liquid



Liquid / Solid

- Synthesis
- Crystallisation
- Polymerisation
- Bio-reaction
- Extraction

crystallisation  
chemistry flow bioreaction  
Coflore polymerisation  
synthesis agitators reactor multiphase  
ATR  
ACR





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