



AutoMATE II

High functionality, parallel reaction platforms, providing flexibility, efficient use of space, wide choice of features and controls with **SCALABLE DATA**.

TWO PLATFORMS WITH INDEPENDENTLY CONTROLLED ZONES

AM4: Vessels Up To 500ml

AM8: Vessels Up To 120ml



KEY FEATURES

- Independent temperature control of vessel and jacket
- -80 °C to 250 °C (over 100 °C range between reactors)
- High temperature version up to 500 °C
- Independent agitation control – overhead and/or magnetic
- Range of interchangeable vials / reactors
- Metal alloy reactors up to 200bar or higher
- Computer Control (with a choice of interfaces)

DATA / APPLICATIONS

System is supplied to suit each application, compete with all sensors, probes, reactors, stirrers, liquid dosing, gas feed and venting etc. This is a high specification platform that provides scale up data as well as screening capability.

- Catalyst screening and catalytic process development (1ml to 300ml)
- Synthetic organic chemistry process development
- Polymerisation and other downstream petrochemical processes
- Hydrogenation and other gas/liquid reactions
- Process optimisation (DOE methodology)
- Calorimetry (new simple method)
- Range of interchangeable vials / reactors
- Metal alloy reactors up to 200bar or higher
- Computer Control (with a choice of interfaces)



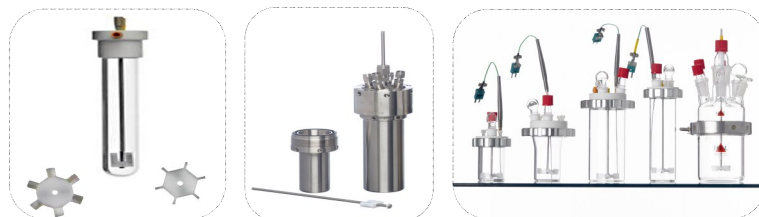


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Features

VERSATILE CHOICE OF REACTORS

- 5 to 500ml – mostly interchangeable
- Glass and metal reactors, switchable
- Standard and custom designs
- Reflux and inerting features
- Measure / control internal temperature



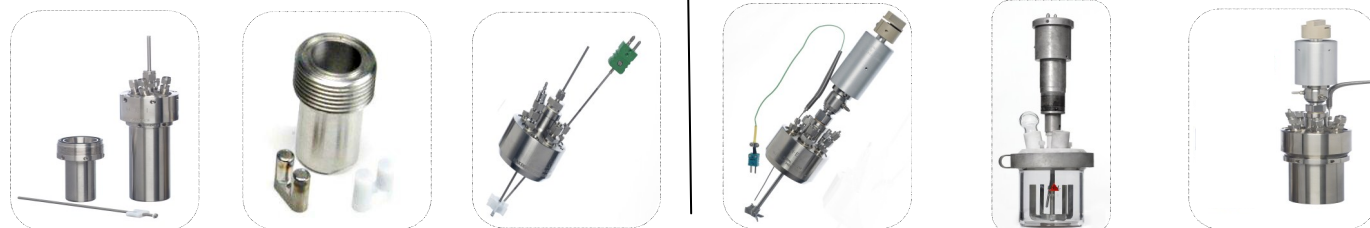
AGITATION

- Magnetic fleas for small samples in vials
- Suspended mechanical stirrers for lower viscosity liquids and slurries



Overhead Stirring

- For high viscosity (over 1000 Cpoise) applications
- Full range of stirrer types and materials of construction



CHOICE OF SENSORS AND CONTROLS

- Temperature
- Stirring
- pH
- Liquid dosing
- Gas feed
- Pressure control
- Mass flow controller
- Spectroscopic probes



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