

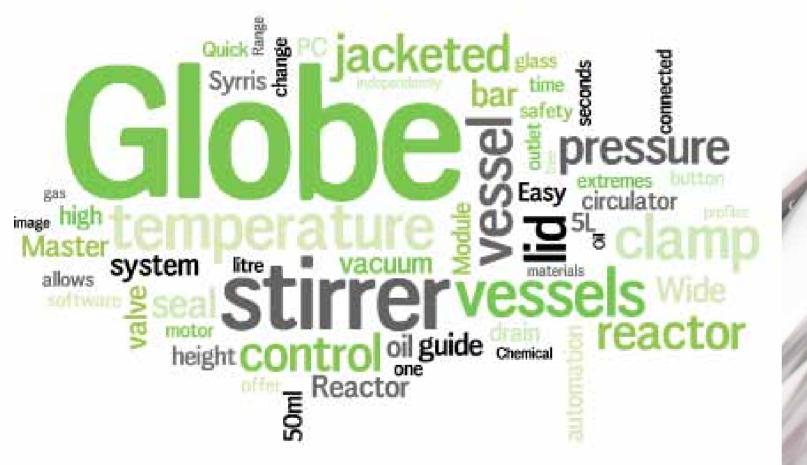
Benefits

- More reactions in less time: The Globe oil drain unit and quick clamp allow "single hand" vessel changes in seconds
- **Space saving:** 50ml, 100ml, 250ml, 500ml, 1L, 2L, 3L or 5L vessels, all use the same clamp, lid, circulator and adjustable height Globe platform
- Easy to use: No tools, no fuss
- Maximum chemical resistance: All wetted parts are glass or PTFE (stainless steel and Hastelloy options available)
- Wide temperature range: -90°C to +250°C
- **Wide pressure range:** Vacuum (50 mbar) to 0.25 bar (or 3 bar with pressure system)
- Leak free vessels: The spring loaded bottom outlet valve eliminates leaks even at extremes of temperature and pressure
- Upgrade to automation: Add the Globe Reactor Master or PC software for total automation of reaction parameters
- Robust and reliable: Built on Syrris' extensive experience, the Globe reactor system is built to last

globe

Globe is an innovative jacketed reactor platform from Syrris.

It has been designed by chemists to offer the ultimate ease of use and reaction flexibility. The advanced technology allows vessels from 50ml to 5L to be compatible with just one clamp and one lid. Globe enables vessel changes in seconds, automatic stirrer alignment, the widest range of pressures and temperatures available and upgrades to full automation.





Globe saves time, money and space

Globe's range of proprietary technologies enable the fastest, easiest and safest vessel change imaginable. The design saves space and money by enabling vessels from 50ml to 5L to be used with same clamp, lid, circulator and stand.

Rapid oil drain: With the push of a button, the oil drain unit quickly and safely drains oil from the jacketed reactor back into the circulator.

Quick oil pipe connection and oil pipe tidy: These allow quick and reliable connection of the oil pipes to the jacketed vessel without the need for tools.

Quick vessel clamp and release: The Globe clamp can hold the unclamped lid or vessel independently. A squeeze of the lever seals the two together or releases. The vessel is removed with a simple twist.

Easy to raise/lower motor and auto aligning stirrer: Pulling the Globe handle raises the stirrer motor away from the stirrer seal and guide. A button on the stirrer seal and guide allows instant stirrer height adjustment.

Rapid oil drain









Quick oil pipe connection and oil pipe tidy









Quick vessel clamp and release









Easy to raise/lower stirrer motor and auto aligning stirrer









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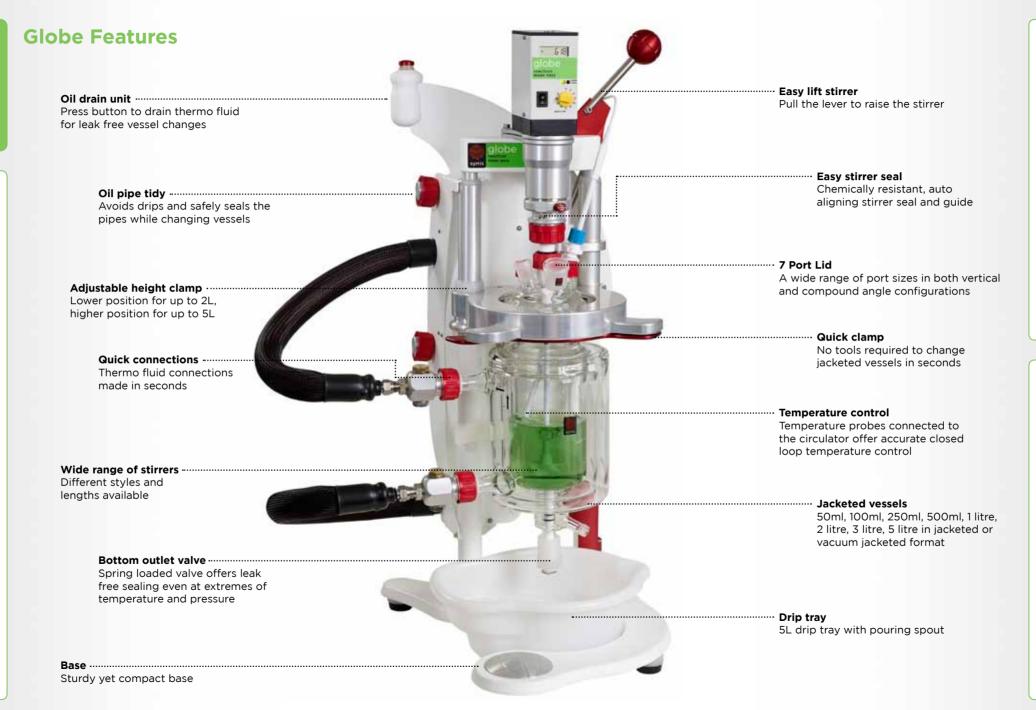
reactions made easy





Optional automation without PC Add the Globe Reactor Master to automate, display and log temperature,

stirring speed, additions, pH etc.





High Pressure

3 bar pressure systems are available for Globe including automated gas selection and pressure control



Optional PC software

Add the Globe Reactor Master PC software for sophisticated automation

Jacketed Vessels

Globe offers an extremely wide range of vessel sizes and profiles with or without vacuum jackets. Globe uses exactly the same "premium quality" vessels as the Syrris Atlas jacketed reactors allowing total inter-changeability between Globe and Atlas systems.

Stirring

Globe offers a wide range of stirring options due to the innovative stirrer seal and guide which allows quick and independent connection to the stirrer motor or stirrer shaft.

Wide range of vessels: Vessels of 50ml, 100ml, 250ml, 500ml, 1L, 2L, 3L or 5L all use the same clamp, lid and adjustable height stand.



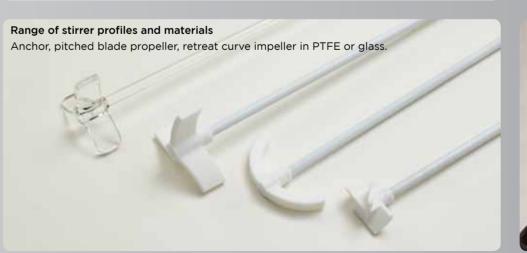














Temperature Control

Globe is designed for accurate temperature control over a very wide range of temperatures. The default temperature range is -40°C to +200°C and this can be extended to -90°C or +250°C with the low temperature or high temperature upgrade kits.







Pressure Reactors

The regular Globe system is suited to atmospheric pressure or vacuum processes (to 50mbar). For pressure reactions, Syrris offer the Globe 3 bar system. This includes a high pressure lid, vessel, clamp and safety manifold. For gas control, choose the Gas Selection Module or Pressure Control Module.







This module automatically controls the

dosing of gas into and out of the reactor

to control the pressure within the reactor.

3 bar clamp The clamp for the 3 Bar Globe system is designed to accept any of the Syrris jacketed reactors and the jacketed vessel lid that are rated to 3 bar (and 200°C).



Automated liquid dosing and reaction control

The Globe jacketed reactor system can be upgraded to perform automated experiments, even without a PC. Choose the Globe Reactor Master for full automation and data logging or the Syringe Pump for automated reagent dosing.

Globe PC Software

The Globe Master PC Software converts Globe into a totally controlled laboratory reactor.

Add the Syringe Pump

The Atlas Syringe Pump is a versatile volumetric dosing and/ or sampling system. It allows 2 independent refilling flows, one continuous flow, reaction sampling, intelligent control of pH and temperature dependant dosing. It consists of two syringes and multi port valves and be controlled from the front panel, by a Globe Reactor Master, or the Globe Reactor Master PC software.



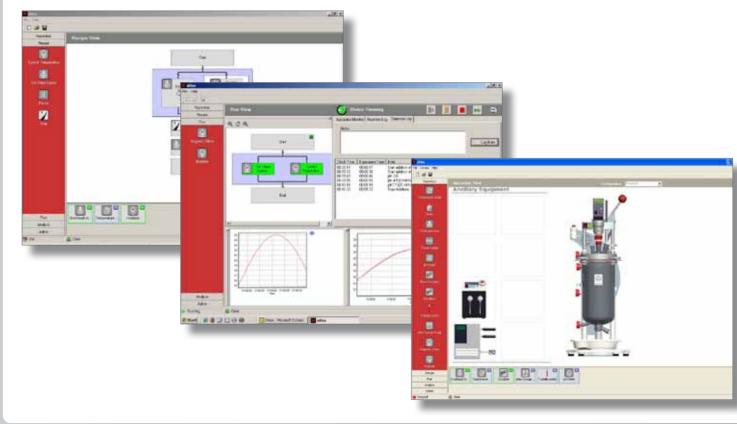
Add the Globe Reactor Master

The Reactor Master automates Globe's temperature, stirring speed, quantity and timing of liquid additions. It can perform experiments of up to 99 steps whilst logging all data. All of this is controlled by the twist and click knob. Data can be viewed in real time and downloaded to a USB memory stick as a .csv file.



Add the Globe Reactor Master PC software

Reactor Master Software is an easy to use PC based application for control and analysis of Globe experiments. Whole systems including stirrers, circulators, RTDs, pumps, balances etc. can be configured using virtually any manufacturer's apparatus. The "drag and drop" interface means recipes can be created, changed and saved with a click of a mouse.



Globe is designed and manufactured by Syrris, the world's most advanced provider of laboratory scale chemistry systems.

Syrris' network of offices in the UK, USA, Japan, India and Brazil plus over 35 distributors worldwide offer local service and support.

Contact us now at: www.syrris.com



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