



orb

effortless
reactions

jacketed reactor

robust, adjustable system for
vessels up to 10L



SERLABO
TECHNOLOGIES



Unrivalled quality » Intuitive design » Exceptional value

What is the Orb Jacketed Reactor?

Orb is a compact bench top jacketed reactor system for batch chemistry. Orb offers excellent value and is a high-quality, user-friendly, reliable solution for batch reactions. Orb allows rapid height adjustment and two clamp sizes to accommodate a wide range of vessel sizes from 100ml to 10L, which can be interchanged quickly. A wide selection of accessories and upgrades for automation is available.

Orb benefits:

- **Wide range of vessels:** 100ml, 250ml, 500ml, 1L, 2L, 5L and 10L torispherical vessels, up to 5L round bottom and vacuum jacketed vessels.
- **Quick vessel changes:** the unique vessel clamp mechanism allows quick and easy vessel changes.
- **Rapid height adjustment:** instant change of vessel height without tools.
- **Maximum chemical resistance:** all wetted parts are glass or PTFE.
- **Wide temperature range:** -40°C to 200°C (-90°C to +250°C with temperature upgrade kit).
- **Wide vessel access area:** enables easy reagent additions, allows use of wide range of accessories and larger stirrers.
- **Drip tray:** for protection from spillages.
- **Excellent value:** unbeatable quality, functionality and price.
- **Wide range of accessories:** compatible with a wide range of stirrer motors, stirrers, probes, condensers etc.
- **Automation:** upgrade with the Orb Reactor Master or PC software for total automation of reaction parameters.

Orb features:

Orb's intuitive and thoughtful design makes using jacketed reactors easy. The compact design saves space and its robust, durable construction ensures longevity and reliability. Orb has been built to the highest quality with clever usability features, and it represents excellent value for money for those requiring a batch chemistry system.

Upgrades such as automation and oil drain are available for more sophisticated needs.

Orb can be upgraded with:

- » **Automation and data logging:** circulators, stirrers, thermocouples and RTDs from virtually any manufacturer can be controlled via Syrris Reactor Master. Data can be viewed in real time and downloaded to a USB memory stick as a .csv file.
- » **Simple oil drain:** press button to drain thermo fluid for leak free vessel changes.

Examples of Orb applications:

- Synthesis of APIs, fine chemicals, nanoparticles etc.
- Crystallization - controlled API crystallization, purification etc.
- Process development, process optimization, design of experiment etc.
- Pilot plant scale manufacturing.

List of parts:

Orb System

A typical Orb system includes Orb Base, Clamp, Stirrer Motor, Drip tray, Vessel, Orb Lid, Choice of Stirrers and a Circulator.

Accessories

A wide range of accessories is available:

Condensers, RTD probes, baffles, pressure equalizing funnels, powder addition funnels, support rods are available, adapters for lid ports (B29 to B28, B29 to B18 etc.)



Left: Orb jacketed reactor

Right: Orb reactors with 5L and 500ml vessels

Below: Syrris 500ml jacketed round bottom vessel



Syrris Ltd. (Europe and Rest of World)

T: +44 (0)1763 242555

E: info@syrris.com

W: www.syrris.com

Syrris Japan, Inc.

T: 045 263 8211

E: info@syrris.co.jp

W: www.syrris.co.jp

Serlabo Technologies
France

T: 04.90.23.77.20

E: info@serlabo.fr

W: www.serlabo.fr



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