



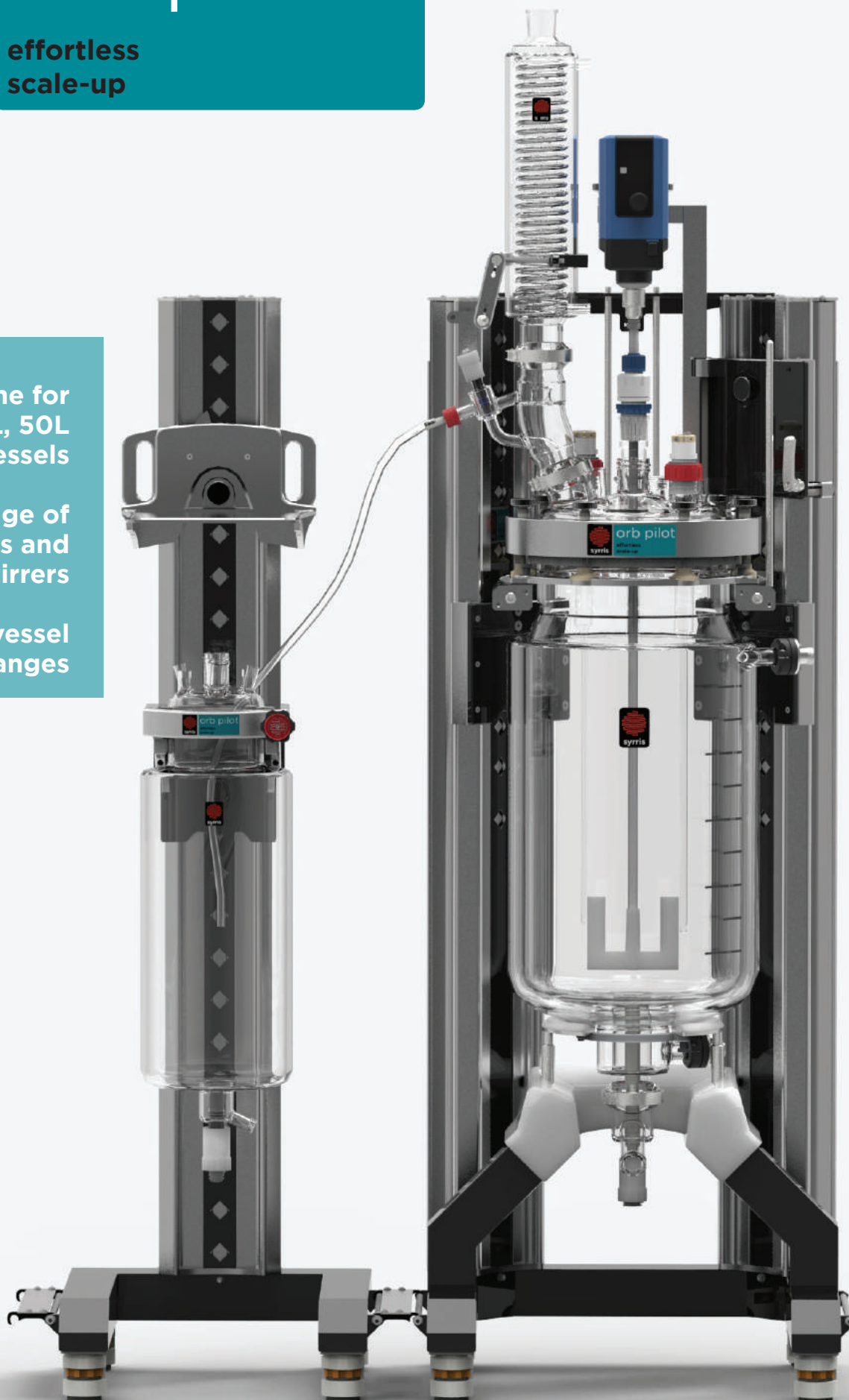
orb pilot

effortless
scale-up

Single frame for
10L, 20L, 30L, 50L
reactor vessels

Wide range of
accessories and
stirrers

Fast vessel
changes



» preview

Ultimate ease of use » Exceptional performance » Outstanding value

What is the Orb Pilot Jacketed Reactor?

Orb Pilot is a floor standing jacketed reactor system for scaling up of batch processes. It is the most flexible and versatile reactor system at this scale with many user friendly features built-in. The system can be easily configured to match your exact requirements, and offers a wide variety of accessories and stirring options. Orb Pilot is incredibly robust and durable, designed for years of continuous service.

Orb Pilot benefits:

- **A wide range of vessel sizes in a single system:** 10L, 20L, 30L & 50L single jacketed vessels and 10L, 20L & 30L vacuum jacketed vessels
- **Rapid vessel changes:** Easy motor lift and unique neck clamp and support. Rapid oil drain mechanism and pre-defined clamp positions
- **Self adjusting frame:** The spring loaded base allows for vessel tolerances and thermal expansions. No need for frame adjustment.
- **Wide temperature range:** -40°C to + 235°C
- **Detachable bottom outlet valve:** for easy cleaning and maintenance
- **Large range of accessories and add-ons:** stirrers, baffles, condensers, reflux splitters, collection vessels, probes
- **Accessory Tower:** Couples directly to Orb Pilot frame and accepts distillation collection vessel, liquid feed vessel, pump or equipment shelf
- **Designed for years of service:** quality engineering and rugged construction ensures years of service even in the most demanding environments

Orb Pilot features:

Orb Pilot is a versatile precision engineered reactor system with many advanced features, yet costs the same as an ordinary fixed reactor. Designed specifically for scale-up chemistry, the system is packed with clever yet cost-effective design solutions. Its rugged construction and quality glassware (produced in our state-of-the-art glass manufacturing facility) ensures years of service. Orb Pilot offers ultimate ease of use, high performance and superb value.

Specifications:

	10L to 30L vessels	50L vessels
Temperature range	-40°C to +235°C	
Flange size	DN235	DN300
Jacket connection	M30 x 1.5	
Bottom outlet	40mm diameter	
Overhead stirring	Up to 500rpm Up to 400N/cm continuous*	
Lid ports	2 x DN60, 2 x GL45, 2 x B19, 1 x B34†	

*dependant on stirrer motor specification
†custom configuration available on request

System details:

Orb Pilot System

A typical Orb Pilot system includes the Orb Pilot frame, neck clamp DN235 or DN300, base support, lid, stirrer seal, stirrer, stirrer motor, jacket connections and oil pipes.

Accessories

Stirrer motors, stirrers (many geometries, glass, PTFE, coated stainless steel), baffles (glass or stainless steel, many geometries), condensers, temperature probe, bottom outlet RTD, oil drain kit, reflux splitter, accessory tower, condensate collection vessel, pump and equipment shelf.



Left: 50L Orb Pilot system

Right: 50L Orb Pilot jacketed reactor system with Accessory Tower

Below: Syrris 50L single jacketed torispherical 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

Syrris India

t: +91 22 2686 4410
e: info@syrris.com
w: www.syrris.com

Syrris Inc. (North America)

t: 617 848 2997
e: info-usa@syrris.com
w: www.syrris.com

Syrris Brasil

t: +55 11 5083 4963
e: info@syrris.com
w: www.syrris.com.br