

Scaled-down, feature-packed solution for simple and robust upstream intensification

The XCell™ Lab System enables simple, fast, cost-effective and scalable upstream intensification development. Augmented process data and new scale-down device models help deliver more complete characterization data while using less growth media. Each component is rigorously tested to work together as a complete solution.

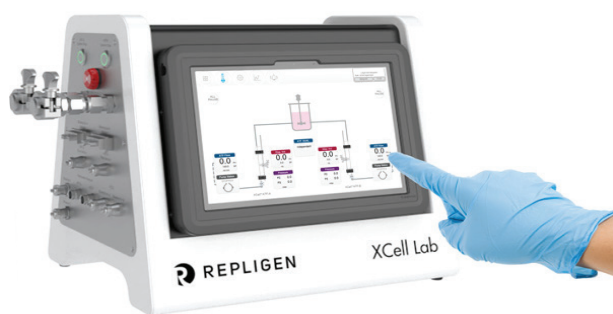


Components

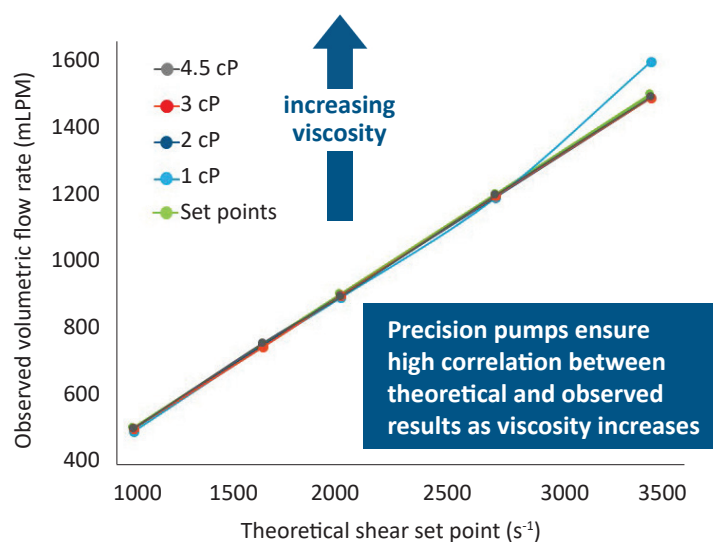
1. Flow sensor
2. XCell ATF® Device
3. XCell™ Lab Controller and software
4. Supply air protection assembly
5. Vacuum manifold
6. Vacuum pump

Precision engineering with design simplicity

Engineered for robust intensification, the XCell™ Lab Controller delivers precise flow rates, even at high cell densities and viscosities. Highly configurable set-up options generate throughput and flexibility for maximum facility utilization. With each manifold supporting up to 4 controllers and each controller supporting up to two devices, a total of up to 8 ATF devices can be run on each manifold. A tablet based graphical interface, which can be mounted on the controller or the shelf, makes the system easy and enjoyable to use.



- Two XCell ATF® Devices per controller
- Permeate pressure delivers real-time filter status
- Elegant and powerful user interface



Multiple lab device sizes and formats

XCell ATF® Lab Devices scale linearly from intensification development to manufacturing. Available in Single-use (SU) and Stainless-Steel (SS) formats, working volumes range from 0.5 L - 50 L. The XCell ATF® 1 Device provides the smallest working volume and features integrated accessories, including an AseptiQuik® Connector and a permeate pressure sensor. The 0.5 - 2 L XCell ATF® 1 working volume reduces media costs and provides linear flux and shear parameters for scale-up to 5000 L.



XCell ATF® 1 SU



XCell ATF® 2 SU



XCell ATF® 2 SS



XCell ATF® 4 SS



		Key feature	XCell™ Lab Controller	XCell™ C24 Controller
Models	Single ATF operation Dual ATF operation Dual w/P3 (permeate pressure)	★ ★	✓ ✓ ✓	✓
Interface	Touch screen Shelf or controller mountable tablet		12 inch ✓	5 inch
Device	XCell ATF® 1 XCell ATF® 2 XCell ATF® 4 In phase/Out of phase dual operation	★ ★	✓ ✓ ✓ ✓	✓ ✓
Compliance	21 CFR pt 11 Auto logoff/auto re-start CE Windows level security TUV/REACH/RoHS/ISTA	★ ★ ★	✓ ✓ ✓ ✓	✓ ✓
Data and monitoring	Data historian and export Validated up to 3 cp viscosity Validated up to 6 cp viscosity Permeate pressure Measured flow rate and displacement volume Configurable events on alarm Supply pressure regulation and relief Regional units (imperial/metric)	★ ★ ★ ★ ★	✓ ✓ ✓ ✓ ✓ ✓ ✓	✓

