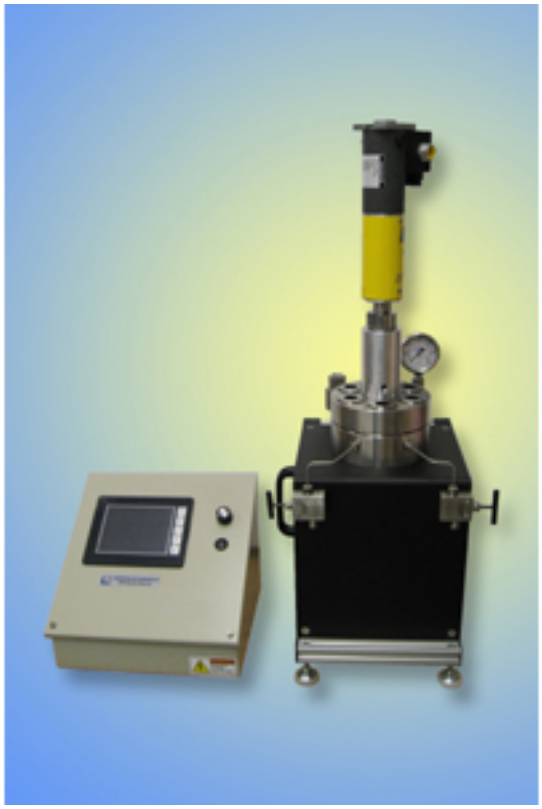
High-Pressure Stirred Reactor



Supercritical Fluid Technologies has designed its HPR Series high-pressure stirred reactors for researchers who are interested in performing pressurized chemical reactions in their laboratories. According to the company, the bench-top HPR Series is further highlighted by:

- Control of all functions by your choice from 3 integrated RxTrol™ processors — the RxTrol Sr., which uses a microcontroller to perform all PID, ramp/soak, process trending, mixing and interlock functions; the RxTrol Jr., which consists of 2 temperature sensors (wall/interior mounting), as well as fuzzy logic PID temperature controls and mixing controls in a table-top assembly; and the RxTrol B, which is comprised of 2 temperature sensors (wall/interior mounting) and an open-loop mixer speed control via a 0 to 100 percent power output knob.
- A magnetically coupled impeller for optimal mixing.
- ASME-rated high-pressure components that are also protected by a rupture disc for safe operation.
- Operation at up to 10,000 PSI and 350°C.
- Sizes that range from 50 mL to 4 L.
- A compact, modular design that fit easily into a fume hood, while making it simple and cost-effective to alter the unit’s basic configuration to adapt to new or evolving application needs.
- Suitability for catalytic chemistry, hydrolysis, polymerization, synthesis, process development and more.

- Optional vessel windows, additional ports, cooling coils, sample loops, standalone pressure transducers, supercritical fluids pumps and reagent addition modules.

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