Continuous Hydrogenation Reactor

ASYMCHEM

Laboratory Continuous Hydrogenation & Catalyst Screening Platform

WHY THIS EQUIPMENT?

- Fully automated flow reactor
- Laboratory hydrogenation R&D platform
- Highly efficient through intensified flow operation
- Reproducible hydrogenation performance

Reaction Temperature	Room Temp.~200 °C
Reaction Pressure	Maximum 10 MPa
Material	SS316 L, HC-276
Catalyst Loading	5-15 mL
Liquid Feed Rate	0-9.99 mL/min
Gas Feed Rate	0-1,000 mL/min



KEY FEATURES

Space-Efficient Design

Compact footprint suitable for standard fume hood installation.

High-Pressure & High-Temperature Operation

Operation up to **200 °C** and **10 MPa** with a micro-volume reactor for efficient catalyst testing and gram-scale production.

Flow Control & Process Monitoring

High-accuracy delivery systems, real-time monitoring, and intelligent control eliminate batch-to-batch variation.

Flexible & Safe Operation

Seamless automatic and manual mode switching with integrated temperature and pressure safety interlocks.

ASYMCHEM

INCLUDED SOFTWARE SUITE

Secure & Traceable

User access control and real-time operation logging to ensure data integrity

Adaptable Control

Flexible switching between automatic and manual modes with independent device control

Proactive Safety Monitoring

Configurable high and low limits with automatic alarms and shutdowns to ensure safe operation

PERFECT FOR:

- Catalyst screening and optimization
- Hydrogenation process development
- Gram-scale synthesis in flow mode
- Lab-scale hydrogenation studies

READY TO ELEVATE YOUR HYDROGENATION RESEARCH?

Contact us for a demo or technical details

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VISIT OUR OFFICIAL WEBSITE