



#5509

PID-Micromeritics Microactivity Reference unit with fixed bed reactor in vertical ceramic furnace (Effi)

DESCRIPTION

Fully automated reaction system for studying chemical processes at high pressure and temperature. Supports gas, liquid, and gas/liquid phase reactions, both homogeneous and catalytic, with integrated activity, selectivity, and stability analysis.

MAIN FEATURES

- Max. pressure: 100 bar
- Max. temp.: 650°C (100 bar) / 800°C (1 bar)
- Hot box: up to 200°C
- 3 independent mass flow controllers (max. 1000, 100, 20 mL/min)
- HPLC pump: 0.01–5 mL/min
- Outlet condenser: 5–80°C
- GC integration (FID/TCD)
- Control, data acquisition and safety software

MAIN APPLICATIONS

- Catalyst testing: activity, selectivity, and stability
- Kinetic studies and optimization of chemical process operating conditions
- Hydrocarbon/alcohol reforming, CO oxidation, methanol synthesis, WGS, methanation

ASSOCIATED CAPABILITIES AND SERVICE

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