



5110

High Pressure Reactor/Magnetic Stirring (100 mL) (Parr Instrument Company, Model 4592-Control Model 4842)

DESCRIPTION

High pressure stainless steel batch reactor with magnetic drive stirring and ceramic mantle heating. It is intended for liquid phase or liquid-gas reactions with small volumes of reactant and catalyst.

MAIN FEATURES

- Vessel volume: 100 mL
- Maximum allowable working pressure (MAWP): 3000 psi (207 bar)
- Maximum temperature: 225 °C with FKM o-ring; 300 °C with FFKM; 350 °C with flat PTFE gasket
- Closure: split-ring
- Stirring: magnetic drive, maximum torque 16 lb-inch, 1/8 hp variable speed motor and 4-blade impeller
- Heating: 700 W ceramic fiber mantle
- Instrumentation: 0-3000 psi pressure gauge, internal thermocouple, charging and venting valves, rupture disc
- Control: 4842 unit with PID temperature control, pressure readout and stirring speed regulation
- Optional: cooling cold finger

MAIN APPLICATIONS

- Hydrogenation, hydrogenolysis, oxidation, esterification and hydrodeoxygenation
- Kinetic studies with catalysts in slurry
- Rapid catalyst screening with small masses or expensive reactants
- Hydrothermal and biomass valorization reactions at laboratory scale

ASSOCIATED TECHNOLOGY

1102

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