EQUIPMENT CARD

PLAPIQUI



5610

High pressure reactor/magnetic stirring (1000 mL) (Parr Instrument Company, Model 4560-Control Model 4842)

DESCRIPTION

High pressure batch reactor with magnetic drive stirring, which avoids leaks by dispensing with rotating seals. It allows liquid phase or liquid-gas reactions to be carried out at high pressure and temperature under controlled operating conditions.

MAIN FEATURES

- Vessel volume: 1 L
- Material: AISI 316 stainless steel, with split-ring closure
- Stirring: magnetic drive with variable speed motor and turbine impeller
- Heating: electric ceramic fiber mantle with PID control
- Instrumentation: pressure gauge, internal thermocouple, charging, venting and sampling valves, and rupture disc
- Cooling: optional internal cooling coil
- Control: 4842 unit with PID temperature control, pressure readout and stirring speed regulation

MAIN APPLICATIONS

- Hydrogenation, oxidation, esterification and hydrogenolysis in the liquid phase
- Conversion of sugars and biomass into furfural and other platform chemicals
- Activity tests of heterogeneous catalysts in slurry
- Kinetic, stability and catalyst reuse studies
- Functionalization of natural products under controlled pressure and temperature

ASSOCIATED TECHNOLOGIES AND CAPABILITIES

1601 - 1602 - 2602 - 2603

CONTACT US

Office of Technology Transfer

ott@plapiqui.edu.ar
plapiqui.edu.ar/ott
+54 291 4037200 - Int 217/214
+54 9 291 4261644