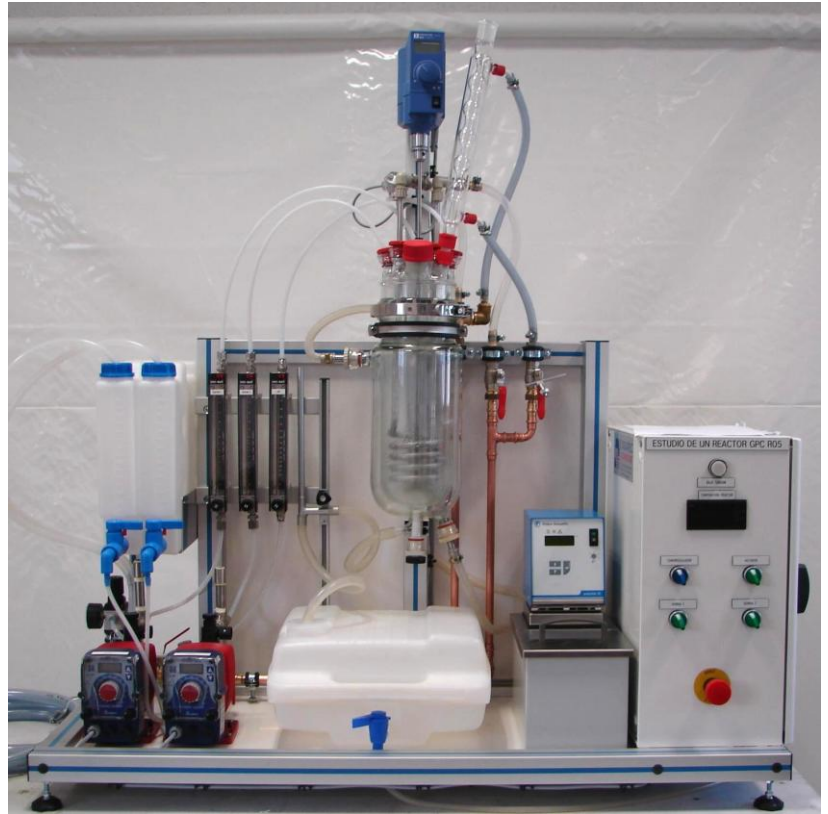


GPC R05

Study of a chemical reactor

DESCRIPTION

- v The chemical reactor unit is delivered complete with instrumentation and includes a technical and instruction manual.



SUGGESTED APPLICATIONS

- ⇒ Chemical reactions in liquid phase
- ⇒ Batch or continuous reactions.
- ⇒ Reaction time for chemical reagents.
- ⇒ Effects of time of residence.
- ⇒ Temperature effects.
- ⇒ Agitation effects.
- ⇒ Solid liquid mixing.
- ⇒ Gas liquid mixing.
- ⇒ Condensation.
- ⇒ Heat transfers.

GPC R05

TECHNICAL CHARACTERISTICS

Reactor

- Double envelope reactor, in glass, capacity : 3 liters
- Spherical bottom same as the superior scale
- Adjustable rate of agitation - 75 W - 40/1200 r.p.m
- Supply orifices : solid, gas, two liquids
- Level in the reactor adjustable by drainage
- Temperature sensor and indicator
- Glass condenser

Heating and cooling of the reactor

- Thermoregulation unit
 - PID regulation from +20 to +100°C
 - Circulation pump 8 L/min.
 - Heating power : 1500 W
- Stainless steel coil immersed in the reactor

Reactor supply

- Two liquid supply lines
- Two polypropylene tanks with 5 liter capacity
- Two flow meters and two diaphragm pumps
- Gas supply : pressure and flow regulation

Recovery tank

- Polypropylene tank
- Capacity : 15 liters

DIMENSIONS

Length : 900 mm
Width : 1100 mm
Height : 550 mm
Weight : 120 kg

UTILITIES

Electricity : 220 VAC Single-phase – 50/60 Hz – 10 A
Network water
Drainage