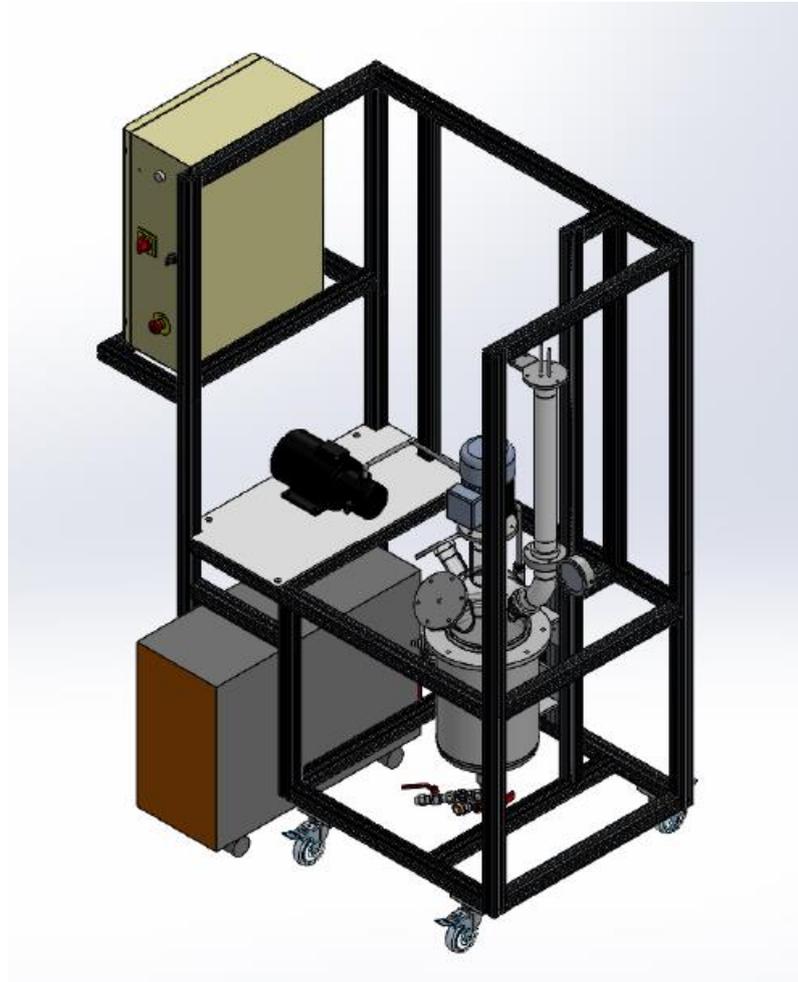


REACTOR ASSEMBLY AND DISASSEMBLY



Experimental capabilities

- **Assembly and disassembly of the various components of a stirred reactor**
- **Understanding and reading the PID diagram**
- **Selection the material**
- **Change of a seal**
- **Change of a stirrer**
- **Motor assembly**
- **Assembly and connection and utilities**
- **Test sealing**
- **Detection of assembly malfunctions and react accordingly**

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Dans le cadre de l'amélioration permanente de nos produits, ce descriptif technique est susceptible d'être modifié sans préavis
As part of the continuous improvement of our products, this technical specification may be modified without previous notifying

Operating principle

The GPCR01 bench allows maintenance training on a chemical reactor. This unit is designed to be disassembled and reassembled by students. The teacher can choose to raise the unit in whole or in part. The manipulations will be carried out in water for safety reasons.

The robust design of this device makes it suitable for use in schools.

The equipment is set up on an Anodized aluminum frame on casters wheels. This gives it great strength and a flexibility of integration into your premises.

The manufacture of this equipment complies with the European standard for machinery manufacturing.

Illustrations

6. Instruments:

- 2 Pt100 Ω temperature probes.
- Float flow meter
- Needle vacuum gauge



Technical details

1. 316L stainless steel reactor

- Volume = 10 L useful
- Stainless steel cover, stirring tapping, temperature tapping, condenser
- Double envelope allowing understand heating technology
- Assembly and disassembly of a probe of temperature, stirrer shaft, cover, PTFE gasket
- Equipped with a drain valve

2. Agitator

- Slow fixed speed motor 100 rpm
- Motor coupling: agitation bearing, turret, motor support, shaft and stainless-steel mobiles
- The assembly can be dismantled to carry out maintenance operations

3. Cooling circuit

- Regulator
- Stainless steel condenser with glass sight glass
- Flow adjustment valve

4. Vacuum circuit

- Vacuum pump, vacuum gauge
- Isolation valve
- Adjustment valve
- Vent valve
- Safety valve

5. Thermoregulator Group

- Integrated regulator allowing to obtain a adjustable temperature
- Power 3kW

Services required

- Electrical supply: 400 Vac – 50 Hz – 32 A
- Electrical network: 3 phases + Neutral + Earth.
- Water supply: 15 L/min – 3 bars
- Water drain: on the floor
- Dimensions : (LxWxH mm): 1400 x 800 x 1650
- weight (Kg): 130

Note : if the equipment installation is operated by our staff, all supplies and exhaust connections required must stand at less than 2m from the machine

Documentation

- User's manual
- Pedagogical manual
- Technical documentation of the components
- Lab exercises
- Hydraulic diagram
- Electrical diagram
- Certificate of conformity CE