

GPC EX2

Stainless steel solid-liquid extraction

DESCRIPTION

- This unit provides a method for separating the components (liquid or solid) of a heterogeneous mixture using an appropriate liquid solvent.
- The unit is made of stainless steel similar to those used in industry.
- It can work in either batch or continuous mode and at atmospheric pressure or in a vacuum.
- The unit can be automated so that it can be computer controlled by adding temperature sensors and regulated heaters (electric or hot fluid). This feature is an optional extra.
- A user manual is provided.

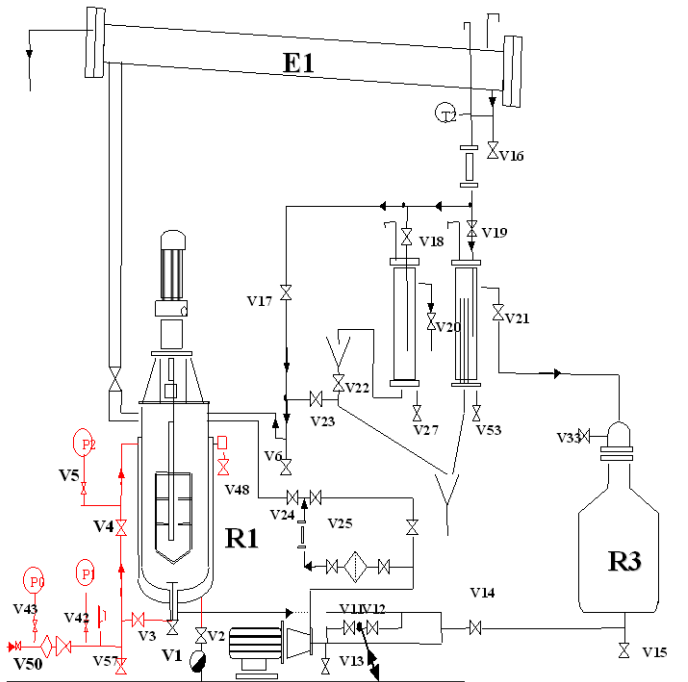


SUGGESTED APPLICATIONS

- Study of a process
- Thermal and matter balances
- Efficiency
- Effect of the agitation

GPC EX2

COMPONENTS OF THE UNIT



- 1. Heating tube**
 - Borosilicate glass
 - 2-kW electric resistance heater
- 2. Liquid supply tank – polyethylene**
- 3. Supplying diaphragm pump**
 - Stainless steel head 316 L
 - Flow rate 0 – 22 l/h
- 4. Supply preheater**
 - Power : 50 watts
- 5. Distilling column DN 50**
 - Height : 1 000 mm
 - Lagged
 - 3 supply plates (stainless steel 316 L)
 - Padding Multiknit (stainless steel 316 L)
- 6. Electromagnetic reflux head**
 - With a timer (24 V)
 - Borosilicate glass
- 7. Double-walled condenser and internal plug**
 - Exchange area 0.3 m²
 - Borosilicate glass and stainless steel
- 8. Exchanger for distillate (borosilicate glass)**
- 9. Receiver (borosilicate glass)**
- 10. Low level sensor**

UTILITIES

Electricity : 380/400 VAC tri
Network water

DIMENSIONS

Length : 1 400 mm
Width : 800 mm
Height : 2 000 mm
Weight : 150 kg

TEMPERATURE MEASUREMENT

TRC : Temperature in the reactor
T1 : Vapour temperature on top of the column
T3, T4 : Temperature in the column