

GPC E10

Liquid-liquid extraction shaking out by rotary disks

DESCRIPTION

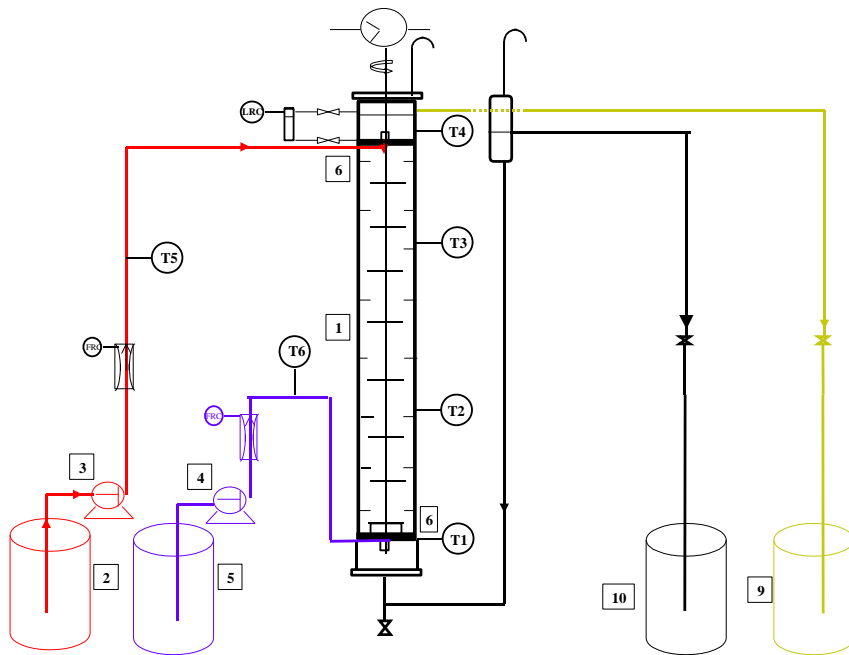
- Process of separation of the components of a liquid mixture based on the difference in solubility of the components in a specific solvent.
- The extraction takes place in a medium that is agitated with stainless steel rotary disks fixed on a vertical shaft. The rotating disks disperse the components resulting in movement of the different phases.
The speed of rotation is controlled by a pneumatic agitator.
- Technical documentation and instructions are provided.



SUGGESTED APPLICATIONS

- Study of the process
- Experimental determination of the liquid-liquid balance
- Determination of the number of theoretical stages
- Efficiency of the column
- Mass balance : matter transmission
- Effect of the action of the agitator (Comparative study with or without any agitation)
- Example of industrial process

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UTILITIES

Electricity : 230 V – 50 Hz

DIMENSIONS

Length : 1 300 mm
Width : 630 mm
Height : 2 500 mm
Weight : 150 kg

1. Extraction column

- Borosilicate glass
- Diameter : 50 mm
- Height : 1 500 mm

2. Supplying tanks

- Borosilicate glass 3.3

3. Supplying diaphragm pumps

- Stainless steel head 316 L
- Flow rate : 30L/h

4. Flow rate control valve

- Pneumatic command
- PN 10
- DN 15
- Outlet signal 4 – 20 mA

5. Level of differential pressure

- Scale - 0 to 100 mm of water column
- Outlet signal 4 – 20 mA
- With pressure transmitter

6. Dispatching supplying plates

- Stainless steel 316 L

7. Agitator with rotary disks

- Stainless steel 316 L
- Variable speed
- ADF : pneumatic command

8. Barometric leg

9. Recipe tank

- Borosilicate glass 3.3

TEMPERATURE SENSORS

- T1 : Substructure
T2 : 1/3 inferior
T3 : 1/3 superior
T4 : Top of the column
T5 : Solvent supply
T6 : Mix supply