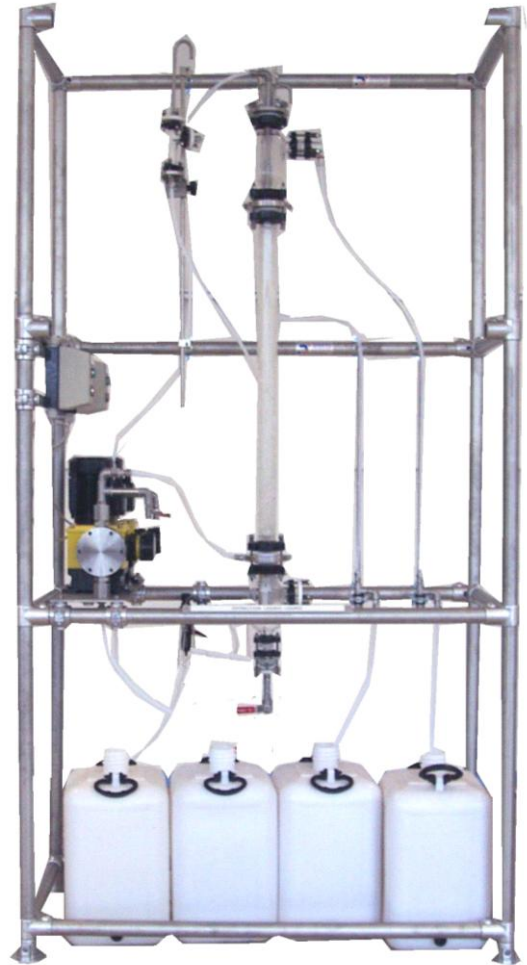


GPC E30

Simple liquid-liquid extraction

DESCRIPTION

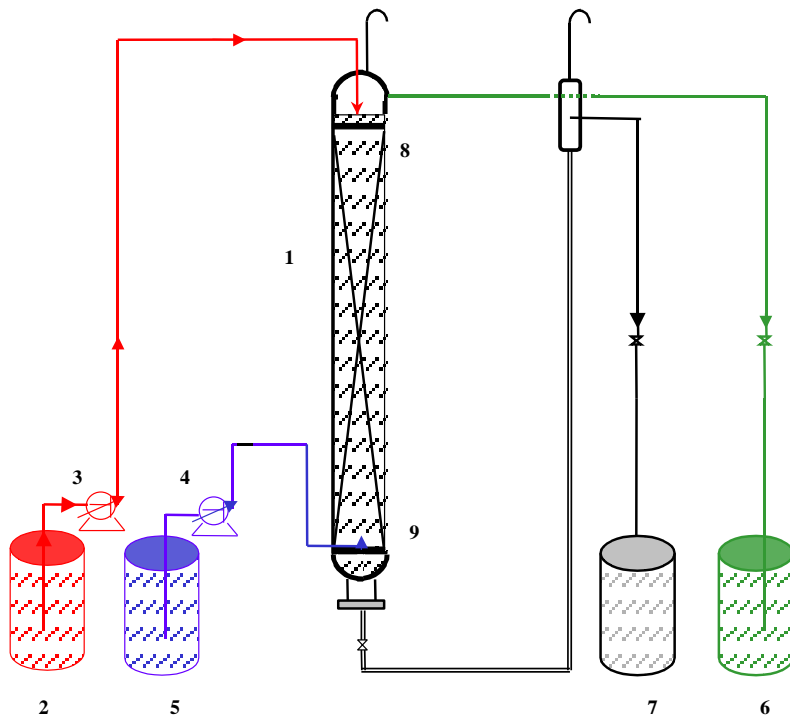
- Process of separation of the components of a liquid mixture based on differences in solubility of the components in a specific solvent.
- This unit permits the simulation of a liquid-liquid extraction, which is similar to a process used in industry. It also illustrates a way of determining the feasibility of such a process.
- A user manual is provided.



SUGGESTED APPLICATIONS

- Study of a 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)
- Industrial application

GPC E30



1. Extraction column

- Borosilicate glass
- Diameter : 50 mm
- Height : 1200 mm

2. Supplying tank of the solvent

- Borosilicate glass 3.3

3. Diaphragm pump supplying the solvent

- Stainless steel head 316 L
- Flow rate : 0-22 L/h to 10 bar (150 psi)

4. Diaphragm pump supplying the mixture

- Stainless steel head 316 L
- Flow rate : 0-83 l/h to 10 bar (150 psi)

5. Supply tank for the mixture

- Polyethylene

6. Receiver for the extract

- Borosilicate glass 3.3

7. Receiver for the raffinate

- Borosilicate glass 33

8. Dispatching supplying plates of the substructure

- Stainless steel 316 L

9. Dispatching supply plates of the top of the column

- Stainless steel 316 L

10. Barometric leg

- Permits adjustment of the phase at the top of the column

DIMENSIONS

Length : 1200 mm
Width : 500 mm
Height : 2500 mm
Weight : 500 kg

OPTIONS

- Additional temperature sensors
- Perforated plates instead of padding