

## "Batch" distillation demonstration

### DESCRIPTION

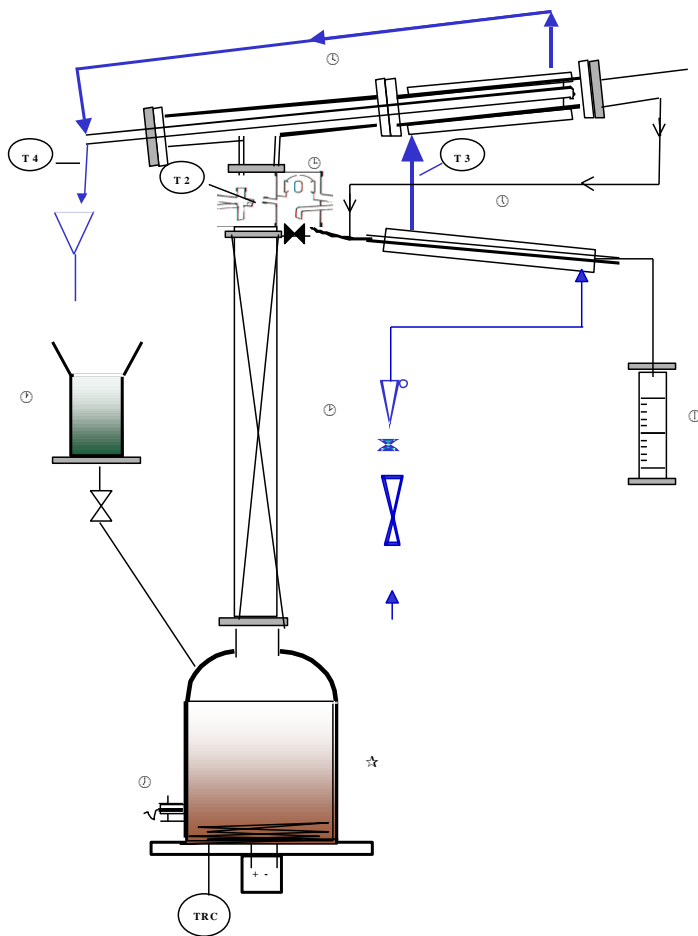
- Permits the separation of the components of a liquid mixture due to a difference in boiling points for the components of the mixture. The operation is based on the vaporization of a liquid leaving behind part of the mixture as a residue. The resulting vapour is then collected after it has been condensed.
- This unit allows for an excellent demonstration of distillation.
- The unit is easily moved into position.
- A user manual is provided.



### SUGGESTED APPLICATIONS

- Study of a batch process
- Thermal and material balances
- Determination of the number of theoretical fractions using the methods of Mac Cabbe Thiele or Ponchon Savarit.
- Result of obstruction of the column
- Computation of the minimum reflux ratio

# GPC D05



## UTILITIES

Electricity : 230 V – 60 Hz – 5A

Network water

Drain

## DIMENSIONS

Length	:	800 mm
Width	:	700 mm
Height	:	1350 mm
Weight	:	40 kg

## ∂ Substructure

- Borosilicate Glass
- With a 1200 W heating element

## • Supply tank

- Borosilicate glass
- Volume = 2 L

## ÷ Distilling column DN 50

- Height: 500 mm
- Lagged
- Packing - RASCHIG rings type (or Multiknit as an option)

## ≠ Manual reflux head

- Borosilicate glass

## ≡ Condenser

- Glass - 316 L
- Tubular exchanger
- Exchange area = 0.1 m<sup>2</sup>

## ≈ Cooling exchanger of the distillate

- Borosilicate glass
- Monotubular exchanger

## ... Distillate receiver

- Borosilicate glass
- Volume = 1 L - graduated

## | Low level sensor

- Capacitive sensor

## MEASUREMENTS

### 4 Pt 100 temperature sensors

**TRC** : Temperature adjustment in the substructure

**T1** : Top of the column

**T2, T3** : Inlet and outlet of the water in the condenser