

Automated gas/liquid absorption

DESCRIPTION

- Specific operation, which allows the separation of the components of a gaseous mixture through a liquid solvent, by affinity (solubility).
- The gas/liquid absorption is made in back run in continuous or batch mode. Samples tapping is provided in order to make measurements of pressure and temperature. Fluid flow rates are measured and controlled.
- The unit includes a user manual.



SUGGESTED APPLICATIONS

- Study of a continuous process.
- Determination of the coefficients of material exchange (HUT-NUT).
- Determination of the number of theoretical changes
- Result of obstruction of the column.
- Material balance by continuous monitoring of pH and regulation of the flow rates of various fluids.
- Industrial applications.

Erreur! Liaison incorrecte. ∂ **Absorption column**

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

UTILITIES

Electricity : 230 V - 50 Hz

DIMENSIONS

Length : 1300 mm
Width : 630 mm
Height : 2500 mm

• **Supply tanks - polyethylene**

÷ **Supplying diaphragm pump**

- Stainless steel top - 316 L
- Flow rate : 22 L/h

≠ **Extract receiver – 2 L**

- Borosilicate glass

≡ **Receiver for purified gas**

- Borosilicate glass

≈ **Flow meter for inert gas**

- With a needle gate
- Flow rate 0-100 L/min STP

… **Flow meter for gas to be absorbed**

- With a needle gate
- Flow rate 0-48 L/min STP

| **Dispatching supplying plates**

- Stainless steel – 316 L

— **Pressure losses panel (in mm of water)**

┘ **Barometric leg**

- Makes it possible to control the phase in the top column

TEMPERATURE SENSORS

T1 : Solvent inlet

T2 : Top column temperature

T3 : Substructure temperature

T4 : gaseous mix inlet