

Instrumented gas-liquid absorption

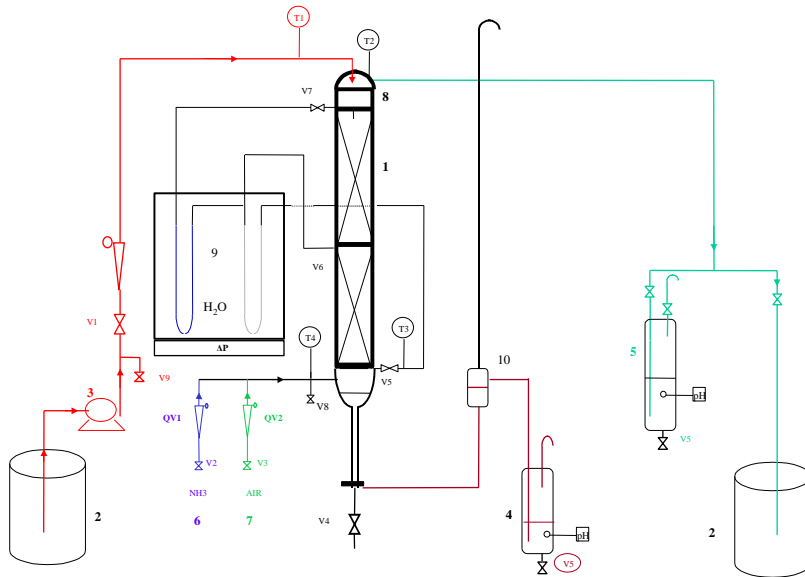
DESCRIPTION

- Specific operation that allows the separation of 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. pH probes monitor the process. The flow rate of the fluids is measured and controlled.
- A user manual is provided with the unit.



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 the obstruction of the column
- Material balance through continuous monitoring of the pH and regulation of the flow rate of various fluids.
- Industrial applications



Electric cabinet

- Interrupter general with low voltage light...
- With all the elements necessary for the good working and the safety of the machine : fusible.
- Emergency stop, differential 30 mA ...
- Buttons for the pump

UTILITIES

Electricity : 200-240 V – 50/60 Hz
10 A

DIMENSIONS

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

1- Absorption column

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

2- Supply tanks

- Volume = 30 l
- In polyethylene

3- Supplying diaphragm pump

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

4- Extract receiver

- Borosilicate glass
- Volume = 2 l

5- Receiver for purified gas

- Borosilicate glass
- Volume = 2 l

6- Flow meter for inert gas

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

7- Flow meter for gas to be absorbed

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

8- Dispatching supply plates

- Stainless steel – 316 L

9- Pressure losses panels (in mm WC)

- U Tubes
- Borosilicate glass

10- Barometric leg

- Permits adjustment of the phase in top column

Temperature sensors with 4 ways indicators

- T1 : Solvent inlet
T2 : Top column temperature
T3 : Substructure temperature
T4 : Gaseous mix inlet