

Product Name :
Wetted Wall Gas Absorption Column**Product Code :**
ALABS-A174-011**Description :****Wetted Wall Gas Absorption Column**

- A floor standing apparatus, used for demonstration and determination of liquid film mass transfer coefficients.
- Comprises both wetted wall column and a deoxygenating column, a water tank, two water pumps, an air pump and an oxygen meter with two probes.
- The wetted wall section is 900mm long, 32mm internal diameter, and made of glass.
- The deoxygenating column is 1570mm long, 26mm internal diameter, and made of clear acrylic.
- The equipment is used to study absorption of oxygen from air into deoxygenated water, specific demonstrations include:

- Calculation of liquid film mass transfer coefficient
- Variation of this coefficient with mass flow rate

Description:

- The system components are mounted within a floor standing painted steel framework.
- The wetted wall column is a glass column with water inlet and outlet sections and is gimbal mounted to ensure that it can be set accurately vertical.
- The deoxygenating column is of similar overall size to the wetted wall column, standing vertically adjacent to it. Beside the columns is a control console housing flow meters, pump controls and oxygen analyser. Situated between the columns are two special housings containing the oxygen analysis probes which monitor the oxygen content in the water entering and leaving the absorption column. The apparatus uses water as the working medium, contained in a storage tank at the rear of the unit. Pumps delivering water to the deoxygenator and the absorption column are located at the base of the unit.



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