

**Product Name :**  
Corrosion Studies Kit**Product Code :**  
ALABS-A174-012ALTEC™**Description :****Corrosion Studies Kit**

The corrosion studies kit allows simultaneous study of up to eight corrosion cells each containing three test specimens.

- Sample mounting in a manner to minimise secondary effects.
- Corrosion rates measured visually and by weighing.
- Stirring by air or inert gas.
- Comprising:
  - A service panel
  - Air pump
  - Eight test cells of glass construction, with specially machined lids enabling samples to be mounted
  - Test cell supports

- Digital pH meter
- Specimen pieces of steel, zinc, brass and copper
- Platinum electrodes
- Low voltage supply

**Description:**

The corrosion studies kit uses a number of simple items of equipment in a series of tests, designed to demonstrate to the student how potentially corrosive situations may be recognised and avoided. Although the experiments refer principally to steel water systems, the apparatus may be used as a test bench for other chemical systems.

The equipment allows for the simultaneous study of up to eight corrosion cells of whatever type is selected according to the teaching syllabus being followed. Each test cell allows for the immersion of three similar test specimens in the test liquid at any one time, to eliminate 'rogue' results from untypical metal samples. Each sample is mounted in a manner that minimises secondary effects and the metal surface of known area is exposed to the test liquid.

**Technical Details:**

**Power Supply Unit:**

**Outputs:**

0 – 15V at 2A

0 – 30V at 1A

**Air pump:** diaphragm type

**Air flow rate:** 6 l/min

**Max. head:** 0.8kg/cm<sup>2</sup>

**Max. power of motor:** 0.05kW

**Digital pH Microsensor and pH meter:**

- Range of pH meter: 0 – 14pH
- Resolution: 0.01pH

- Accuracy:  $\pm 0.01\text{pH}$

- Dimensions: 195 x 29 x 15mm



## Equipments Exporters

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