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

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/cm2

Max. power of motor: 0.05kW

Digital pH Microsensor and pH meter:

- Range of pH meter: 0 – 14pH

- Resolution: 0.01pH

- Accuracy: ±0.01pH

- Dimensions: 195 x 29 x15mm