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PRODUCT DATA SHEET
Catalogue reference for product evaluation

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Corrosion Study Unit | ReaktiLabX - 04

Category: Chemical Reaction Technology · **Country of Origin:** India

Product Overview

The Corrosion Study Unit ReaktiLabX - 04 investigates corrosion behavior and protection measures using 8 glass electrolyte vessels. This Corrosion Study Unit tests stainless steel, steel, copper, brass, and aluminum specimens under varying pH, salt concentration, and voltage conditions. It features an adjustable power pack, diaphragm pump, and manual pH measurement for comprehensive corrosion analysis. External voltage, sacrificial anodes, and protective layers are all studied for corrosion protection.

View this product online: https://scienticoindia.com/product/corrosion-study-unit-reaktilabx-04/



Request a model-specific quotation
Include quantity and delivery country.

Technical Specifications

Corrosion Study Unit ReaktiLabX - 04 — Technical Specifications

Specification	Detail
Study Scope	Investigation of corrosion and corrosion protection measures
Electrolyte Vessels	8, with covers and 6 specimen holders each
Power Pack	Adjustable, for application of external voltage
Air Supply	Via pump
Gas Supply	Reversing valve for air or external gas supply
Gas Flow Adjustment	Per vessel, using flow control valves
pH Recording	Recording of pH value of electrolyte solutions using manual unit
External Gas Pressure Range	0.2~1bar

Technical Data

Electrolyte Vessels

Parameter	Value
Capacity	1000mL
Material	Glass

Power Pack

Parameter	Value
Voltage	0~30VDC
Current	0~5A

Diaphragm Pump

Parameter	Value
Flow	approx. 250L/h

Specimens

Parameter	Value
Materials	Stainless steel, steel, copper, brass, aluminum, x5 each

Measuring Ranges

Parameter	Value
pH value	0~14
Resolution	0.01

Key Features

Key Features

- **Electrolyte Vessels:** 8, glass, 1000mL capacity, with covers and 6 specimen holders each
- **Power Pack:** adjustable, 0~30VDC, 0~5A, for external voltage application
- **Air Supply:** diaphragm pump, approx. 250L/h
- **Gas Supply Control:** reversing valve for air or external gas, flow control valves per vessel
- **External Gas Pressure:** 0.2~1bar range
- **pH Measurement:** range 0~14, resolution 0.01
- **Specimen Materials:** stainless steel, steel, copper, brass, and aluminum, x5 each
- **Corrosion Protection Study:** external voltage, sacrificial anodes, and protective layers all studied on this Corrosion Study Unit

Experiments

- Corrosion behavior of different metallic materials (rust / passivation)
- Formation of local elements
- Influence of pH value of the electrolyte solution
- Influence of salt concentration in the electrolyte solution
- Oxygen corrosion
- Corrosion protection: external voltage, sacrificial anodes, protective layers

Construction and Design

The Corrosion Study Unit ReaktiLabX - 04 consists of 8 electrolyte vessels, made of glass with a capacity of 1000mL each, fitted with covers and 6 specimen holders per vessel. Specimens include stainless steel, steel, copper, brass, and aluminum, 5 of each material. An adjustable power pack, rated 0 to 30VDC and 0 to 5A, applies external voltage to specimens connected via electrical conductor for sacrificial anode and local component studies. A diaphragm pump, flow rated approximately 250L/h, introduces ambient air into the electrolyte solution as needed, with a reversing valve allowing air or external gas supply at a pressure range of 0.2 to 1bar. Each vessel's gas flow rate is customized using flow control valves. A manual unit records the pH value of electrolyte solutions, with a measuring range of 0 to 14 and a resolution of 0.01.

Scope of Delivery

- 1 experimental setup
- 1 set of samples
- 1 instruction manual

Ordering & Delivery

- Send the product name, quantity, delivery country and destination with your enquiry.
- Production schedule, freight, payment terms and export documents are confirmed in the written quotation.

Frequently Asked Questions

Q: What is the Corrosion Study Unit ReaktiLabX - 04 used for?
A: It is used to investigate corrosion and corrosion protection measures, including rust and passivation behavior, local element formation, and the effects of pH and salt concentration.

Q: How many electrolyte vessels does the unit have?
A: The unit has 8 electrolyte vessels, each with a 1000mL capacity and 6 specimen holders.

Q: What specimen materials are included?
A: Specimens include stainless steel, steel, copper, brass, and aluminum, with 5 of each material.

Q: How is corrosion protection studied on this unit?
A: Corrosion protection is studied through external voltage application, sacrificial anodes, and protective layers, using the adjustable power pack.

Q: What is the pH measurement range and resolution?
A: The pH measuring range is 0 to 14, with a resolution of 0.01.

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