PROWHITE

CORROSION TESTING





## 600 L and 1,100 L configurations

Cyclic salt spray and controlled relative humidity

**PW-CCT-600 / PW-CRH-1100**

# Salt Spray & Cyclic Corrosion Chambers

Precision at Every Stage. Confidence in Every Test.

# Two chamber configurations



PW-CCT-600 / 600 L / CYCLIC

## Cyclic salt spray

For programmes with salt fog, drying and high-humidity phases.

**Salt fog · Dry-off · High humidity**



PW-CRH-1100 / 1,100 L / CONTROLLED RH

## Controlled-humidity cycling

For multi-stage tests that require variable relative humidity and programmed solution spray.

**Salt fog · Variable RH · Dry-off · Solution shower**

# What can you test?

Representative metal components and coated specimens for corrosion tests.



## EXAMPLES OF TEST SPECIMENS

### Painted and powder-coated panels

Flat or scribed coupons, coated sheet and sample panels.

### Plated and galvanized hardware

Brackets, bolts, nuts, washers and formed steel parts.

### Anodized aluminium

Coupons, trim sections and short lengths of profile.

### Electrical metalwork

Enclosure panels, cable glands and connector housings.

> The applicable product specification sets specimen preparation, orientation, exposure duration and evaluation criteria.

# Applications by industry

For quality control, coating development and supplier qualification.



## AUTOMOTIVE

Stamped brackets, coated assemblies and mounting hardware.



## COATINGS & METAL FINISHING

Painted, e-coated, powder-coated and plated specimens.



## ELECTRICAL EQUIPMENT

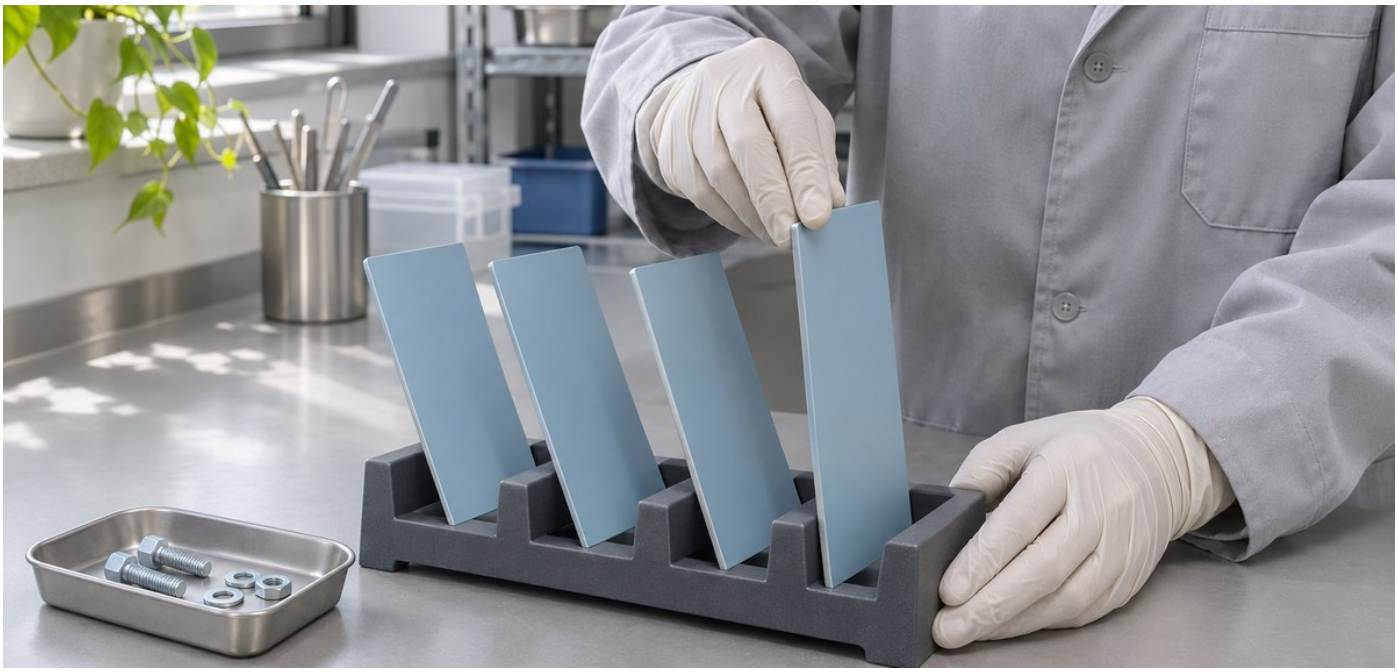
Metal enclosures, gland plates and connector hardware.



## INDUSTRIAL & BUILDING HARDWARE

Galvanized fixings, rails and anodized profiles.

# From specimen to test record



Illustrative specimen preparation scene.

**Prepare and load**

Choose holders to suit the specimen geometry. Load specimens at the specified spacing and angle.

**Set the exposure sequence**

Select the test phases and monitor status and alarms from the single 7-inch touchscreen PLC/HMI on the main cabinet.

**Record and evaluate**

Record exposure conditions and assess specimens against the applicable product specification.

TEST METHODS

## ISO 9227 (NSS) · ASTM B117

Methods for continuous neutral salt spray exposure. Cyclic and controlled-humidity configurations offer selectable phases.

The separate air preparation unit on the 1,100 L configuration connects to the main cabinet via an electrical connector and an air hose.

# Fog, drying and humidity

The test method defines the phase sequence, duration and conditions.

| Test phase | Operating principle | Configuration |
|---|---|---|
| **Salt fog** | An atomizer disperses the solution as a fine mist inside the chamber. | 600 L and 1,100 L |
| **Drying** | Airflow dries the specimen surface under the conditions set by the test programme. | 600 L and 1,100 L |
| **High humidity** | Water vapour raises the relative humidity in the test chamber. | 600 L |
| **Variable relative humidity** | The air preparation unit and sensor feedback manage the temperature and relative humidity profile. | 1,100 L |
| **Solution shower** | Nozzles apply the solution directly to the specimens in a dedicated phase. | 1,100 L |

## Mounting by specimen geometry

**Panel rack**

Flat coated panels and coupons.

**Hanging rod**

Small or irregularly shaped parts.

**Support grate**

Three-dimensional specimens that do not fit a rack or hanger.

Select holders to suit the specimen dimensions, weight and test specification.

# Discuss your test requirements

Share your test method, specimen dimensions and exposure sequence so we can match a chamber to your application.


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