TLI | TEXLAB INSTRUMENTS

CORROSION TESTING





600 L and 1,100 L configurations

Cyclic salt spray and controlled relative humidity

TL-CCT-600 / TL-CRH-1100

Salt Spray & Cyclic Corrosion Chambers

Testing Today for a Brighter Tomorrow.

Two chamber configurations



TL-CCT-600 / 600 L / CYCLIC

Cyclic salt spray

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

Salt fog · Dry-off · High humidity



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

Controlled-humidity cycling

Designed for controlled-humidity OEM cycles with an overhead oscillating spray bar and active cooling.

Salt fog · Solution shower · Controlled RH · Cooling

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.

Salt spray and OEM cycles



Illustrative specimen preparation scene.

TL-CCT-600 / TL-CRH-1100

ISO 9227 (NSS) · ASTM B117 Continuous neutral salt spray

TL-CRH-1100 / CYCLIC CORROSION TEST METHODS

Method	Key cycle requirement
ISO 16701:2025	Humidity cycling at constant dew point (A) or constant temperature (B), with intermittent salt solution spray.
Ford CETP 00.00-L-467 **Volvo VCS 1027,1449 (ACT-2)** **TP.JLR 52.265**	Intermittent wetting by an overhead oscillating spray bar, with controlled humidity and temperature transitions.
Volvo VCS 1027,149 (ACT-1) **Volvo STD 423-0014** **Scania STD 4319**	Direct solution spray and programmed temperature and relative humidity subcycles.
Volvo STD 1027,1375 (VICT)	Two-level humidity cycling and wetting with acidified solution.
GMW14872	Intermittent direct wetting with controlled ambient, high-humidity and dry-off phases.
CCT1 and CCT2	Fog, dry-off and humidity phases. The method code specified with the order defines the recipe and transition times.
VDA 233-102 **DIN 55635 / DIN EN ISO 11997-3**	An actively cooled freezing phase, salt fog and controlled temperature and humidity cycles.

The chamber is built to run the listed cycles. Recipes are configured for the method variants and specification revisions in the order.

Chamber hardware and control

A single 7-inch touchscreen PLC/HMI on the main cabinet manages phases, records and alarms.

TL-CCT-600 / 600 L

Salt fog atomizer, temperature-controlled dry-off and a high-humidity phase. Recipes set the phase order, durations and repeat count.

TL-CRH-1100 / 1,100 L / OEM CYCLIC CONFIGURATION

Fog and solution shower	An atomizer for salt fog and a programmable overhead oscillating spray bar for direct wetting.
Air preparation	A separate unit connects through an electrical connector and air hose. The recipe defines temperature, relative humidity and dew-point profiles.
Heating and cooling	Active cooling at –15 °C for VDA and DIN freezing phases. Heating and air circulation for rapid phase transitions.
Recipes and data logging	Programmable ramps, holds, spray intervals and subcycle repeats. Temperature, humidity, phase status and alarms are time-stamped.

Specimen holders

Panel rack

Flat panels and coupons.

Hanging rod

Small and irregular parts.

Support grate

Three-dimensional specimens.

Specimen loading and test conditions follow the loading and acceptance criteria of the applicable method.

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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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