

# CCT-1(L)

Combined Cyclic Corrosion Test Instrument:  
Salt, Dry, Wet, and Immersion (and Low Temperature)

*Correlation and acceleration -  
Suga's challenge against  
outdoor exposure*



CCT-1 and CCT-1L are corrosion test apparatus for accelerated testing involving cyclic exposure to salt spray, dry, wet, and salt immersion conditions of metallic materials and coatings (CCT-1L can also conduct low temperature test). As CCT-1 and CCT-1L can simulate accelerated degradation in excellent correlation with outdoor exposure, they are widely used in various industries, notably automobile and steel. The reference specimens specified in ISO 9227:2006 are used to verify performance of CCT-1 and CCT-1L.

## Specification of CCT-1 and CCT-1L (low temperature)

Model	CCT-1
Applicable tests with Temperature and humidity range	Salt Spray: 35 °C ± 1 °C, 50 °C ± 1 °C
	Dry: 20 °C to 70 °C ± 1 °C; 25 %rh ± 5 %rh (at 60 °C)
	Wet: 50 °C to 70 °C ± 1 °C; 60 %rh to 95 %rh ± 5 %rh (at 50 °C)
	Salt Immersion: Ambient temperature + 10 °C to 60 °C ± 1 °C of solution temperature
Internal dimension of chamber	Not-controlled air introduced from outside: the air as it is (without temperature and humidity control)
	Low temperature: -20 °C to 20 °C (This test is available only for CCT-1L.)
Internal dimension of chamber	Approx. Width 96 cm, Depth 61 cm, and Height 86 cm

Quantity of specimen	96 pieces (Specimen size: 150 mm × 70 mm, 1 mm thick) to be held at the angle of 15 degrees or 20 degrees to the perpendicular
Electrical requirements	Three-phase, 200 V, approx. 50 A (approx 55 A for CCT-1L)
External dimension of instrument	Approx. Width 171 cm, Depth 177 cm, and Height 217 cm (Weight: approx. 1150 kg)
Related standards	JIS H 8502, JIS K 5600-7-9, ISO 14993, ISO 11997-1, JASO M609, JASO M610, and others
CCT-2L and CCT-3L are also available. Their internal dimensions of chamber are respectively W, 120 cm x D, 90 cm x H, 100 cm and W, 200 cm x D, 100 cm x H, 120 cm.	



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