

CYP-90

Combined Cyclic Corrosion Test Instrument

*Its mission: To serve as
a truly global testing model.*



CYP-90 is corrosion test apparatus of metallic materials and coatings for accelerated testing involving cyclic exposure to salt spray, dry, wet, and introduced ambient air. CYP-90 is world-widely used in various industries as the standard model to be able to conduct cycle tests specified in JIS, JASO, and ISO. It can simulate accelerated degradation in excellent correlation with outdoor exposure. Among

combined cyclic corrosion test apparatus, CYP-90 is the most cost-effective. The reference specimens specified in ISO 9227:2006 are used to verify its performance. CYP-90A (for acid rain cycle test), CYP-90D (including salt water immersion test) CYP-90L (30 °C spraying test of anticorrosive paint) and other models will be available optionally.

Specification of CYP-90

Applicable tests with Temperature and humidity range	Salt Spray: 35 °C to 50 °C \pm 1 °C, 5 % neutral salt water
	Dry: Ambient temperature + 10 °C to 70 °C \pm 1 °C, 25 %rh \pm 5 %rh (at 60 °C)
	Wet: Ambient temperature + 10 °C to 50 °C \pm 1 °C, 60 %rh to 95 %rh \pm 5 %rh (at 50 °C)
Internal dimension of chamber	Hot-controlled air introduced from outside : the air as it is (without temperature and humidity control)
	Approx. Width 90 cm, Depth 60 cm, and Height 50 cm

Quantity of specimen	48 pieces (Specimen size: 150 mm \times 70 mm, 1 mm thick)
Specimen mounting angle	15 degrees or 20 degrees to the perpendicular
Electrical requirements	Three-phase, 200 V, approx. 16 A
External dimension of instrument	Approx. Width 183 cm, Depth 101 cm, and Height 149 cm (Height 174 cm with the lid open) (Weight: approx. 270 kg)
Related standards	JIS H 8502, JIS K 5600-7-9, ISO 14993, ISO 11997-1, JASO M609, JASO M610, and others

CYP-200

Large-sized Combined Cyclic Corrosion Test Instrument

CYP-200 has a large chamber to test a lot of specimens at a time. A specially-designed chamber model with a high load resistant bottom is available to test a large component part, assembly, or final article.

Model	Internal dimension of chamber (Width x Depth x Height)	Quantity of specimen (Specimen size: 150 mm x 70 mm, 1 mm thick)
CYP-120	120 cm x 80 cm x 50 cm	88 pieces
CYP-160	160 cm x 100 cm x 50 cm	156 pieces
CYP-160D	160 cm x 100 cm x 100 cm	156 pieces
CYP-200	200 cm x 100 cm x 50 cm	204 pieces
CYP-200D	200 cm x 100 cm x 100 cm	204 pieces

Other available models are: CCT-1 for salt spray, dry, wet, and immersion tests; CCT-1L even for low temperature test; Large combined cycle chamber; and combined light, ozone, and gas testing apparatus of weather meter type.



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