

Cyclic Condensation-water Climatic Chamber

BGD 876

Product Description

BGD 876 Cyclic Condensation-water Climatic Chamber is designed according to ISO 6270-2 (Paints and varnishes -- Determination of resistance to humidity -- Part 2: Condensation (in-cabinet exposure with heated water reservoir). This standard is different with Part 1 "Continuous condensation", but defines three cyclic programs to simulate different humidity environments:

- CH: Condensation atmosphere with constant humidity
- AHT: Condensation atmosphere with alternating humidity and air temperature
- AT: Condensation atmosphere with alternating air temperature

It can give much better supplements and explanation for corrosion degree and defect types of coating used in different environments. In comparison to Part 1 - single-sided exposure - this method adds a condensation atmosphere with alternating humidity and air temperature, and is mainly used to evaluate paints anti-corrosion ability under different environmental conditions.



Standards

ISO 6270-2 (paints and varnishes - Determination of resistance to humidity - Part 2: Condensation (in-cabinet exposure with heated water reservoir))

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Technical Specification

Condensation Test Atmospheres

Test Atmosphere		Cycle Duration		Conditions in working chamber after reaching equilibrium		
Type		Code	Test Period(s)	Total	Air Temperature	Relative Humidity
Constant Humidity condensation atmosphere		CH	From warm-up to end of exposure	---	40±3°C	Approx 100% with condensation on test specimens
Alternating condensation atmosphere	With alternation of humidity and air temperature	AHT	8h including warm-up	24h	40±3°C	Approx 100% with condensation on test specimens
			16h including warm-up		18 to 28 °C	Approaching ambient
	With alternation of air temperature	AT	8h including warm-up	24h	40±3°C	Approx. 100% with condensation on test specimens
			16h including cooling down (chamber closed)		18 to 28°C	Approx. 100% (approximately saturated)

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Main Technical Parameters

- Designed with automatic ventilator, can control chamber ventilation automatically
- Operator can set three different working conditions: humidification, cooling with ventilation, cooling without ventilation and its corresponding temperature & running time. Any program including total test time and cycle times can be set freely
- Automatic water supply
- Protector for water temperature ceiling
- A glass observation window is designed in chamber, operator can observe specimens test status directly

Parameters:

- Test Specimens Capacity: 20 pcs (150mm×70mm standard size)
- Temperature Range of Working Room: RTD~60° (Dry or condensation)
- Overall Size: 800mm×750mm×1420mm (L×W×H)
- Weight: 180 kg
- Power: 220V 50HZ; Max. power of machine: 2.0KW
- Ordering Information: BGD 876 - Cyclic Condensation-water Climatic Chamber

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