

In-cabinet Exposure Condensation Chamber

BGD 876 In-cabinet Exposure Condensation 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 program: CH (Condensation atmosphere with constant humidity), AHT (Condensation atmosphere with alternating humidity and air temperature), AT (Condensation atmosphere with alternating air temperature) to simulate different humidity environment.

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

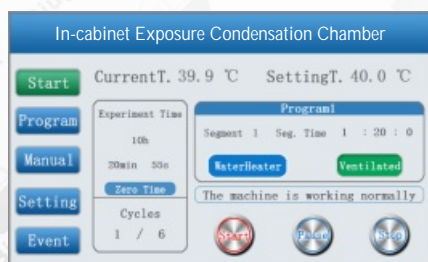
Condensation Test Atmospheres

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		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	8h including warm-up	24h	(40 ± 3) °C	Approx.100% with condensation on test specimens
		16h including cooling down (chamber open or ventilated)		18°C to 28°C	Approaching ambient
	With alternation of air temperature	8h including warm-up	24h	(40 ± 3) °C	Approx.100% with condensation on test specimens
		16h including cooling down (chamber closed)		18°C to 28°C	Approx.100% (approximately saturated)

- ◆ 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.

Main Technical Parameters:

- ★ Test Specimens Capacity: 20 pcs
(150mm × 70mm standard size)
- ★ Temperature Range of Working Room: RT~60°
(Dry or condensation)
- ★ Overall Size: 800mm × 750mm × 1420mm (L × W × H)
- ★ Weight: 180KG
- ★ Power: 220V 50HZ/60HZ; Max. power of machine: 2.0KW



Operation Menu



★ Ordering Information:

BGD 876 ---In-cabinet Exposure Condensation Chamber