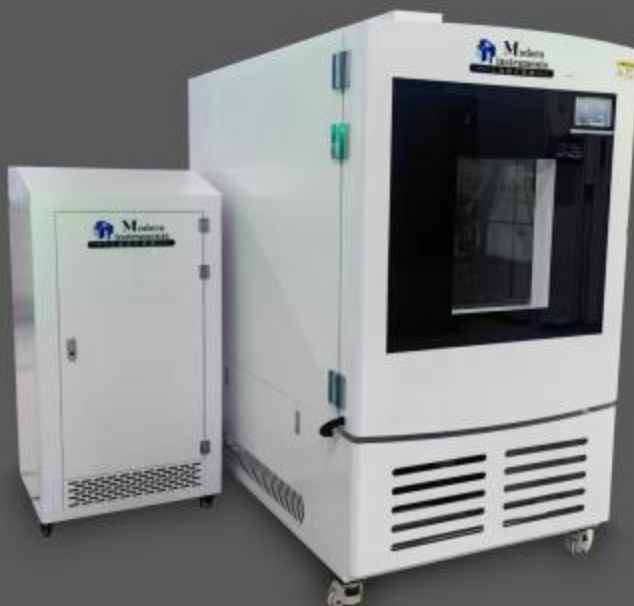




VOC Emission Test Chamber

Emission of VOC (volatile organic compounds), formaldehyde and other harmful substances from raw material such as wood products, furniture, floor, carpet, shoes, plastic runway, building decoration materials, automobile interior materials can be harmful to human health when they are prolonged exposed to these chemicals.

The Emission Test Chamber can provide one or more clean enclosed test spaces, precisely controlling the temperature, humidity, air flow, air pressure and air changes within the chamber. The Emission Test Chamber simulates the process of harmful chemicals released in a model room, and specifies the emission rate of volatile organic compounds (VOC) from sample under pre-defined climate conditions.

- Determine the effects of environmental variables on emission rate and release characteristics of VOC.
- The grades of materials are determined according to the VOC emission characteristics of the sample materials.
- R & D of sample materials and verification of indoor air pollution characteristics from VOC emission.
- Emission rate of VOC in sample experiences time decay in natural environment.
- Assessment of indoor air quality is predicted based on test data analysis.



Technical Specification / Ordering Info

Name & Model	XD-1VOC-A3
Volume of operating chamber	Interior Dimension (1±0.02) m³; W960mm×H1010mm×D1040mm
Overall dimension	W1350mm×H2040mm×D2150mm (approximately)
Temperature/Humidity	Temperature Range: +20℃～+60℃
	Humidity Range: 40%～70% RH (20-30℃)
Instrument resolution	Temperature: 0.1℃
	Humidity: 0.1%RH
Temperature fluctuations	≤±0.5℃
Temperature Uniformity	≤2℃
Humidity Fluctuation	≤±3%RH
Air change rate	0.5～3times/hour(adjustable)
Flowmeter accuracy	0～500L/min Digital flowmeter, tolerance 0.5 grade; Glass rotor flowmeter, tolerance not less than 2.5 grade;0.25～2.5m³/h
Air Flow Display	Micro mass flowmeter,online flow display on touch screen(adjustable)
Airtightness	At 1kPa (gauge pressure), the cabin air leakage rate VL is less than or equal to 0.5 %× cabin capacity /min, or the cabin air leakage rate VL is less than or equal to 5 %× air supply rate VS.
Conditioning period	It takes less than 40 minutes to reach temperature of 23° , it takes less than 70 minutes to teach humidity of 50% and the equipment can run continuously for more than 30 days;
Formaldehyde concentration in air from empty chamber	When there is no load, the formaldehyde background concentration is ≤ 0.006 mg/m³; TVOC background concentration ≤0.02mg/m³, and monomer VOC background concentration ≤ 0.002mg/m³.
Noise	≤55 dB (A sound level)



MODERN
INSTRUMENTS



No 18, Xuwang Road, QingPu District Shanghai, China



+86 2159884839



info@moderner.com