



## Formaldehyde Test Chamber

Machine Introduction: It is used to test formaldehyde emission of various wood-based panel, composite wood flooring, carpet, carpet padding, and other interior decoration materials, also other building materials under constant temperature humidity.

## Working principle

Put the sample into 1 square meter test chamber, under specify temperature, humidity, air velocity. The formaldehyde will released from samples and mixed with air in chamber. The air will be drawn through the absorption bottle is filled with distilled water, all the formaldehyde in air dissolve in the water; Measure the amount of formaldehyde in the absorption solution and extraction of air volume, and show it by micrograms per cubic meter ( $\text{mg}/\text{m}^3$ ).

## Design standard

GB18580-2017, GB18584, GB18587-2001, GB17657-2013, GB50325-2010 (2013年版), ASTM D6007-14, EN 717-1, ASTM D6007-2, GB/T 31107-2014, SJJG52-2016...

## Technique Data

Model	HD-F801-3
Inner volume	1.0±0.02m <sup>3</sup>
Temp. range	10-40°C, accuracy : ±0.5°C, Resolution 0.1°C, Adjustable
Humid. range	30-80% R.H.(accuracy : ±3%, Resolution)0.1%, Adjustable
Leakproofness	1KPa relative pressure, leakage rate< 10-3+1m <sup>3</sup> /min, import and export air differ< 1%
Background levels	formaldehyde ≤0.006mg/m <sup>3</sup>
Air exchange	0.1-2m/s, accuracy: ±0.05m/s, Adjustable
Working hours	not less than 40 days
Dimension (W*D*H)	1630*1200*1850mm
Air replacement rate	0.2-2m <sup>3</sup> /h, accuracy : ±5%, Adjustable

## Configuration list

Standard: Test Chamber, sampling tube, absorption bottle, gas sampler  
Optional: spectrophotometer, water bath, medicament, glass apparatus, standard solution, Balance

## What are the products that produce formaldehyde?



Damage: Long-term exposure to low dose formaldehyde can lead to chronic poisoning, and cause disease in respiratory system, nervous system, reproductive system and so on.



## Preconditioning environment chamber for formaldehyde test

One formaldehyde test chamber can have several environment chambers and can perform sample preconditioning test for several samples at one time. (Numbers of environment chamber can be customized according to different venues and requirements)  
At present, the chamber is widely used in the process of VOC preconditioning such as building materials, toys and automobile interior products. It is especially suitable for the preconditioning process of artificial plate.

## Technique Data

Model	HD-F801-4
Preconditioning environment chamber size	D1250*W800*H1000mm D1250*W800*H1000mm, numbers and specification can customized, and chamber appearance can designed according to using location.
Temp. range	20-30°C
Temp. fluctuation	±0.5°C
Temp. uniformity	±1°C
Humid. range	30%~70% R.H. (at 20-30°C)
Humid. fluctuation	±4%R.H. (at 20-30°C)
Air replacement rate	0.1-2times/hour
Air flow rate	0.1-0.3m/s
Rated power	3kW
Chamber Pressure	10±5Pa
Concentration control	Formaldehyde concentration≤0.006 mg/m <sup>3</sup>