

# Stability Test Chamber

Managing, Medical stability Efficiently...

## Stability Test Chamber(LM-SBC-SS)

LuxMed® Stability chambers are used extensively in the pharmaceutical industry for testing and evaluating the shelf life of drugs. Stability studies involve subjecting pharmaceutical products to controlled conditions such as temperature, humidity, and light exposure.

This equipment provide a long-time stable environment of temperature, humidity and illumination for the medicine invalidation evaluation. It's applied in the medicine accelerating test, growth test, high humidity test and high illuminance test.

A stability test chamber is used to evaluate the shelf life of a product by exposing it to controlled temperature and humidity conditions, simulating real-world environments to assess how a product's quality changes over time, primarily used in industries like pharmaceuticals, cosmetics, and food production to ensure product stability and meet regulatory requirements; essentially, it helps determine how a product will perform under different climatic conditions and identify potential degradation issues before release to the market.

### Key points about stability test chamber usage:

**Product testing:** Used to test various products like drugs, electronics, cosmetics, food items, and packaging materials to see how they react to different temperature and humidity levels.

**Shelf life determination:** By exposing products to controlled conditions, researchers can determine their shelf life or how long a product can be safely stored before quality deteriorates.

**Quality control:** Stability testing helps identify potential issues with a product's stability, allowing for necessary adjustments to formulation or packaging before mass production.

**Regulatory compliance:** In industries like pharmaceuticals, stability testing is mandatory to meet regulatory requirements for drug approval, ensuring the safety and efficacy of medications.

**Accelerated testing:** Stability chambers can be used to accelerate the aging process by exposing products to extreme temperature and humidity conditions to quickly assess potential degradation issues.

### Industries that heavily utilize stability test chambers:

**Pharmaceutical industry:** To test the stability of drugs under various storage conditions.

**Cosmetics industry:** To evaluate the shelf life of cosmetics and personal care products.

**Food industry:** To study the stability of food products under different temperature and humidity conditions.

**Electronics industry:** To test the performance of electronic components in varying environments.

### Features

- The shell is sprayed steel plate, the inner chamber is made of 304 stainless steel, full arc design, convenient for cleaning and maintenance.
- Using SECOP refrigeration compressor, high efficiency, low consumption; non-fluorine environmentally friendly refrigerant.
- Microcomputer intelligent PID temperature and humidity controller, accurate temperature control, with parameter memory function, automatically resume operation after restoring electricity.
- Automatically disconnects power to the humidifier heater when no humidification water is available.
- Over-temperature alarm, under-temperature alarm, temperature probe damage alarm, humidity probe damage alarm.

The chamber is designed with proper insulation lining the interior, and both the inner and outer bodies are made from corrosion-resistant stainless steel. It features removable shelves for convenient storage of products and is equipped with sensors to monitor temperature and humidity levels.

### Specification

Model	LM-SBC-SS250	LM-SBC-SS300	LM-SBC-SS400
Sterilization Type(Optional)	UV sterilization		
Capacity	248L	290L	402L
Temp. Range	0~65°C		
Temp. Fluctuation	±0.5°C		
Temp. Precision	0.1°C		
Humidity Range	40~95%RH		
Humidity Fluctuation	3%RH		
Illumination	Single-side illumination 6000Lux, 5-level adjustable		
Refrigeration System	R134a refrigerant, CFC-free		
Timing Range	The timer can be set for a maximum of 99 hours for a single step, with a total of 100 steps available		
Display	LCD screen		
Power Supply	Standard: AC220V, 50/60Hz Optional: 110V, 50/60Hz(External transformer)		
Consumption	2400W	2900W	3400W
Shelves	2pcs, adjustable		
Standard Accessories	Shelves, LED lamp, built-in water tank, automatic water replenishment interface, miniature thermal printer		
Optional Accessories	Miniature pin printer, USB port		
Internal Size(W*D*H)mm	600*600*800	490*460*1270	560*600*1190
External Size(W*D*H)mm	980*760*1530	690*900*1920	760*1030*1860
Package Size(W*D*H)mm	1080*860*1780	740*970*2090	850*1100*2010
Net Weight(kg)	192	165	195
Gross Weight(kg)	226	195	230

