

# TEMP & HUMID TEST CHAMBER

## How It Works

Temp & humid test chamber is progressed by interaction among very complex heat and vapor generating components such as condensers, water pumps, refrigerator units, vapor steam generators, sensors and etc. 2 sensors (temperature and humidity) in the chamber check the value in real-time. The P.I.D system precisely controls the temperature and humidity inside. Also, stainless-steel structured inner components and insulation material covered and wrapped around the cabinet help holding the temperature.

## The Purpose of Use

Manufacturers have the duty to know how reliable and usable their products are in the market. The design purpose of Temp and Humid Test Chamber is to simulate conditions to identify the performance, life-period, and durability of products under certain temperature and humidity environments.

## The Field of Use

Research, Industries such as Automobiles, Electronics, Foods, Medicines and etc.

# Temp & Humid Test Chamber



**SJ-TH**  
**150/252**



SJ-TH series is suitable for restricted spaces. It is designed to be able to fit in narrow spaces.  
(Temperature Range: 5 °C ~ 98 °C, Max 120 °C), (Humidity Range: 30 % ~ 98 %)

Excellent Uniformity,  
Accuracy, and Stability

P.I.D Control System / Stainless Steel 304 (Chamber) / Glass-wool Chamber Insulation / Silicone Rubber Gasket

Convenient  
User-friendly Design

Temper-glass Window for Easy monitoring / Top Focused Control Panel / Adjustable Shelf Rack / Intuitive and Simple Controller (Digital & LED) / Auto-tuning / Retractable Leveling Caster

## Safety Device

1. Electric Leakage Prevention
2. Overcurrent Prevention
3. Over-temp Prevention
4. Manual Door Lock
5. Low Water Alarm



Controller



Handle



Glass Window  
(LED)



Water Level  
Indicator



Program Controller  
(Options)



Recorder  
(Options)



Second Water Tank  
(Options)



Cable Hole  
(Options)

# SJ-TH series Specifications



For product improvement, the specification below is subject to change without prior notice. Please, contact us for the specification consultant.

Spec / Model	SJ-TH150	SJ-TH252
EACH MAX. TEMP. RANGE	Max 0°C ~ 120°C	
OPERATION TEMP. RANGE	+5°C ~ 98°C (Less than RT. 25°C)	
OPERATION HUMI. RANGE	30% ~ 98% (±2%)	
DIMENSION INTERNAL(mm)	500x500x600	600x600x700
DIMENSION EXTERNAL(mm)	700x956x1,607	1,100x1,056x1,628
CAPACITY	150ℓ	252ℓ
MATERIAL INTERNAL	Stainless Steel(304) With Polishing Finished	
MATERIAL EXTERNAL	Steel Plate SS #41 With Powder Heating Coated	
MATERIAL VIEW WINDOW	Thermopane Glass 41T (Viwe 250x350)	
MOVING CASTER	Foot Master #60 F	
MATERIAL PACKING	Silicon Rubber Packing	
VENT	40Ø Vent Hole	
TEMP & TIME CONTROLLER	Digital Microprocess P.I.D. Controller	
TIME RANGE	00.00 ~ 99Hr 59Min (0r Min-Sec) Selectable Digital Timer	
TEMP SENSOR	PT-100Ω 6.4Ø	
HUMI SENSOR	Electronic Sensor Non-Coverter, 4 ~ 20mA Output Signal	
HEATER CAPACITY	2.4Kw (Dry, Wet)	3Kw (Dry, Wet)
HEATER CONTROL	S.S.R.(Solid State Relay)	
MOTOR & FAN	60W Motor - 150Ø x 80h Fan	60W Motor - 125Ø x 80h Fan x 2
POWER	220-230V~, Max 13A	220-230V~, Max 16A
SAFETY	Electric Leakage Breaker, Over Temp. Protection Device	
REFRIGERATION	Dehumidification Refrigerator 1EA	
SHELVES	SUS (304) Punching Plate Shelves x 2ea	
INSULATED COMPONENT	GLASS-WOOL	
OPTION	CONTROLLER / RECORDER / CABLE HOLE / WATER TANK	