

Spire Automation & Innovation, India.

Inspiring Generations...

HUMIDITY CHAMBER

Humidity chambers provides controlled environment required for various research purposes and industrial application - for testing of electronic, electrical components, corrosion studies on mechanical parts, shelf life studies on paints, varnishes and cement at respective manufacturing facilities. These chambers control precise temperature and humidity.



SALIENT FEATURES

- Double walled construction with inner chamber made of stainless steel SS and outer chamber made of mild steel duly powder coated.
- Solid see thru double walled door and a full view inner plexi-glass door enables inspection and monitoring of inner chamber specimens without disturbing the process temperature.
- Keyed door lock for improved security with magnetic door gasket.
- User - oriented design of shelves makes you adjust each space of shelves without difficulty.
- PUF insulation to ensure temperature stability & reduced energy consumption
- Micro processor based PID temperature & humidity indicator cum control
- Specially designed controller for audio visual deviation alarm from the preset temperature and humidity.
- Designed air flow system ensuring uniform temperature & humidity distribution
- PT-100 temperature sensor (resolution 0.1°C) & Capacitive type humidity sensors
- SS water reservoir with immersion type heaters at the bottom provides 40% to 95% humidity
- Illumination with the help of fluorescent lamps
- It works on 230V AC.
- Unit mounted on castor wheels for ease of mobility

SPECIFICATION

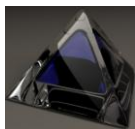
Model	SAII-HC-110	SAII-HC-180	SAII-HC-270	SAII- HC -380	SAII- HC -500	SAII- HC -700
Capacity (Liters)	110	180	270	380	500	700
Internal dimension (WxDxH cms)	45 x 45 x 55	50 x 50 x 72	55 x 55 x 90	60 x 60 x 105	65 x 65 x 120	70 x 70 x 143
Temperature range & accuracy	Ambient +5°C to 80°C ±0.5°C					
Humidity RH% control & accuracy	40 to 95 % ±4%					

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Model	SAII-HC-110C	SAII-HC-180C	SAII-HC-270C	SAII- HC -380C	SAII- HC -500C	SAII- HC -700C
Capacity (Liters)	110	180	270	380	500	700
Internal dimension (WxDxH cms)	45 x 45 x 55	50 x 50 x 72	55 x 55 x 90	60 x 60 x 105	65 x 65 x 120	70 x 70 x 143
Temperature range & accuracy	10°C to 80°C ($\pm 1.5^{\circ}\text{C}$ for cooling and $\pm 0.5^{\circ}\text{C}$ for heating)					
Humidity RH% control & accuracy	40 to 95 % $\pm 4\%$					

Optional:

- Low water level alarm
- In built mini printer to print temperature & humidity
- RS 232 communication port to interface chamber directly to computer for storing data & print
- PLC controlled equipment with touch screen colour display HMI
- MOC Outer body – SS
- Audio visual power failure alarm and door open alarm
- In built voltage stabilizer
- Validation – IQ, PQ & OQ documents

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