Humidity/Stability Chamber

IGL-SC Series

iGENE LABSERVE
Innovative • Interactive • Intuitive

FEATURES & SPECIFICATIONS

DESCRIPTION

Our Humidity/Stability chambers are designed to create extremely stable temperature and humidity environments to analyses the effects of pre-specified conditions on life saving drugs, biological samples, electronic components and industrial parts etc.

- **Construction:** The overall stability chamber is built on a rigid stainless steel frame. Thick gauge of stainless steel 304 or 316 is used. High density PUF insulation is filled between inner and external chambers. Each chamber is provided with suitable number of steel wire mesh cable trays (removable) 4 to 8 or more.

- **Temperature & Humidity:** The temperature range of our humidity/stability test chambers is 10°C to 60°C; while the humidity range is 35% to 95% RH. As per ICH guidelines our chambers are ideal for storage conditions 25°C at 60% RH, 40°C at 75% RH, 30°C at 65% RH and 25°C at 40% RH.

- **Refrigeration System**: For refrigeration, we equip our stability chambers with branded CFC free compressors that are hermetically sealed and feature quiet operation.

- **Heating:** SS tubular air heaters are used to generate warm temperature inside the chamber.

- Humidity system: Stainless steel tank and ISI mark immersion heater features automatic water filling and low water safety device.

- **Air circulation**: Air circulation is mandatory function to maintain uniform temperature and humidity across the chamber; therefore, we equip our stability test chambers with motorized blower assembly which features quiet operation and long service life.

- **Control System:** Our stability chambers are equipped with self-programmed PID controllers, which feature set value (SV) and process value (PV). In addition, we also use PLC based HMI controller which is advance system and features colour touch screen, various error display, data logging and data transfer to pen drive or direct printout. We can also program and configure HMI control system as per user demand

- **Illumination:** Interior illumination is done by LED/fluorescent light which can be supported by cyclic timer if required. It controls the ON/OFF timing of light for a week.

- **Safety Features**: Each stability chamber is equipped with many safety features ensuring you working with a trustable machine. Each chamber is fitted with over temperature protection, over current protection and low and high temperature limits and time delay for compressor switch on etc.

- **Data logging**: We also provide data logging feature with our stability chambers; PC interface with RS485 communication and also 21 CFR part 11 software as an option

SPECIFICATIONS

Temperature Range	**5°C to 60°C**
Temperature accuracy	±1°C
Temperature controller	Microprocessor PID controller Display of SV & PV Low / High buzzer
Humidity Range	40% to 95% RH
Humidity accuracy	±3% RH
Humidity controller	Microprocessor PID controller Display of SV & PV Low / High buzzer
Chamber Illumination	Fluorescent white light
Construction	Double walled
Insulation	PUF insulation
Exterior	Powder coated GI sheet
Interior	Stainless steel 304
Door	Solid insulated door with lock and key
Inner door	Glass door fitted in steel frame
Shelves / trays	2 to 5 steel wire mesh trays (height adjustable)
Air Circulation	Axial fan / blower
Refrigeration	CFC Free compressor with condenser, motor and relay complete unit
Humidity system	SS tank with heater Low water buzzer Auto filling water system
Optional	Stainless steel exterior (GMP) PLC based HMI controller w/ USB interface RS 485 interface 21 CFR part 11 software UV light Storage racks Validation port Caster wheels with brake IQ, OQ and PQ documents

ORDERING INFORMATION

Model	Volume (Liters)	Inner Chamber size (mm)	Trays
IGL-SC200	200 Liters	600 x 600 x 600	2
IGL-SC324	324 Liters	600 x 600 x 900	2
IGL-SC450	450 Liters	600 x 600 x 1250	3
IGL-SC600	600 Liters	600 x 800 x 1250	3
IGL-SC800	800 Liters	800 x 800 x 1250	4
IGL-SC1000	1000 Liters	800 x 800 x 1570	4