

HUMIDITY / STABILITY CHAMBER



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ABOUT THE COMPANY

iGene Labserve Pvt. Ltd. is gaining recognition by offering resilient, innovative solutions in laboratory instrumentation across healthcare, genomics, drug discovery, biopharma, and food & beverage sectors. We strive to enhance lab efficacy and reduce challenges through advanced technologies and a diverse product portfolio tailored to our customer's needs.

DESCRIPTION

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

FEATURES

- **Construction:** The overall stability chamber is built on a rigid stainless-steel frame. The thick gauge of stainless steel 304 or 316 is used. High-density PUF insulation is filled between the inner and external chambers. Each chamber is provided with a 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 at 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 temperatures 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 a 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 an advanced system and features a colour touch screen, various error displays, data logging and data transfer to a pen drive or direct printout. We can also program and configure the HMI control system as per user demand.
- **Illumination:** Interior illumination is done by LED/fluorescent light which can be supported by a 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 trustworthy machine. Each chamber is fitted with over-temperature protection, over-current protection low and high temperature limits and time delay for compressor switch on etc.
- **Data logging:** We also provide a data logging feature with our stability chambers; PC interface with RS485 communication and 21 CFR part 11 software as an option

SPECIFICATIONS

Model	IGL-SC Series
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 (Polyurethane Foam) insulation
Exterior	Powder-coated GI sheet
Interior	Stainless steel 304
Door	Solid insulated door with latch locking
Inner door	Glass door fitted in a steel frame.
Shelves/trays	02 to 05 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





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