



IGENE LABSERVE

Innovative • Interactive • Intuitive

HUMIDITY / STABILITY CHAMBER



OPTIONAL TOUCH SCREEN PLC BASED HMI CONTROL SYSTEM

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Our 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 and industrial parts etc.

DESCRIPTION

- ❖ **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 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



TECHNICAL 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 |





STANDARD SIZES / DIMENSIONS

| 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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