

**The possibilities are endless...**



## Eco Smart Walk in Stability Chamber



**Smart Power Saving by approx 70% & Water Saving by approx 90%**

### Technical Specification :

**Temperature Range** : 20°C - 60°C  
**Humidity Range** : 40 %RH - 95 %RH  
**Accuracy** :  $\pm 0.5^{\circ}\text{C}$  /  $\pm 2.0$  %RH  
**Uniformity** :  $\pm 2.0^{\circ}\text{C}$  /  $\pm 3.0$  %RH  
**Suitable for** : 25°C & 60 %RH, 30°C & 65 %RH, 40°C & 75 %RH, 30°C & 75 %RH Specially designed chambers for Low Humidity conditions such as 25°C & 40 %RH, 40°C & 25 %RH , 30°C & 35 %RH

### Features



Low Power Consumption



Less Water Consumption



Less Breakdown



More Storage Area



Less Deviations



Standby Cooling



Touch Screen



PLC Control



Door Access



Alarms



Safety



Ethernet



Software



Mobile Alert



E-mail Alert

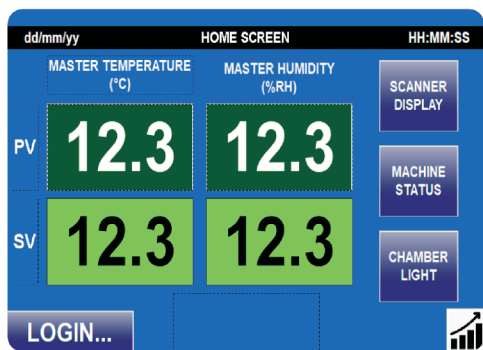


Documents

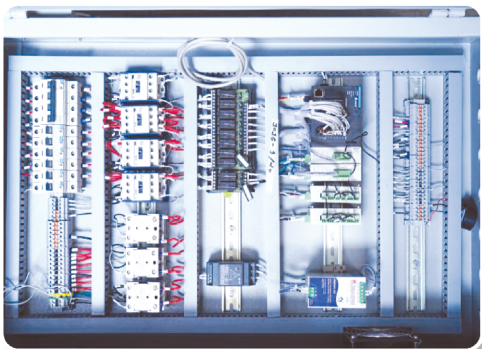




**Inner View**



**Display (HMI)**



**Control Panel**



**Refrigeration Unit**

#### **Dew point Control :**

- Measure of atmospheric moisture
- Temperature to which air must be cooled in order to be saturated with water vapour already in the air.
- Temperature at which dew or frost will form
- Coil temperature controlled as per Dew point and Psychometric chart.

#### **Features:**

- Low energy and Low water Consumption Equipments.
- Works on the principle of Dew point Control
- No Deviations during short-term door opening & power failure.
- No utility Area • More storage area
- Lower Operating cost • Minimum power & water Consumption
- Less deviations • Less breakdowns
- Increase in system & process efficiencies through reduced energy consumption.

#### **Construction :**

- Pre-fabricated modular panel type construction with PUF insulation to be assembled on site with floor panels having extra reinforcement to sustain the movement and sample load inside the chamber.
- The inner working chamber is water & vapour tight high-grade stainless steel.
- Chambers are provided with effective air circulation system, heating & cooling systems and humidity generator system.
- Multi pane vacuum sealed observation glass window to view the samples without disturbing the test condition & human safety.
- Heavy duty solid stainless steel duly electro polished wire mesh/perforated type trays are provided which are easy to clean, time & efforts saving, also adjustable for convenience, along with detachable racks with adjustable angles.

#### **Control Systems :**

- 7" HMI with TFT LCD Colour touch screen with password protection for all parameter actual status monitoring of utilities like Sensor, Heating & Cooling System, Humidity System.
- Rotronic make 4-20mA sensors for better accuracy.
- PLC with auto tuning facility for accurate control of temperature and humidity conditions.
- Data Storage facility in HMI and PLC Both PLC'S Stored data transfer in software via Ethernet and HMI'S Stored data can be view obtain in PDF form through USB Drive.

#### **Alarm & Safety :**

- Temperature deviation & RH deviation Alarm
- Power Failure Alarm
- Continues open door alarm
- Temperature & RH Safety Cutoff
- Low water level Cutoff
- Auto change over Facility for RH Generator & Cooling System

#### **Special Features :**

- Special door lock is provided which can be opened from inside even if locked from outside.
- Password Protected Door Access.
- Person trapped Emergency stop protection.

#### **Software (21 CFR PART-11 Compliance)**

- Log data, Event data, Audit Trail data, E-Records & E-signatures, Graphical analysis & Data acquisition.



#### **Regd. Office :**

16 - F, Simandhar Shopping Centre, Nr. L.I.C. office, Highway Nagarpur, Mehsana - 384002, Gujarat, INDIA. **Mobile :** + 91 9427613646 **Email :** info@kesarcontrol.com

#### **Mfg. Unit :**

B/8, Karma Industrial Estate, Nr. Trikamura Patiya, Vatva, Ahmedabad - 382445. Gujarat, INDIA. **Tele :** +91 9773456692, +91 7228830796 **Email :** service@kesarcontrol.com

**Service Centres :** Ahmedabad ♦ Vadodara ♦ Ankleshwar ♦ Vapi ♦ Chandigarh ♦ Indore ♦ Mumbai ♦ USA ♦ UK ♦ Canada ♦ Egypt ♦ Bangladesh ♦ Nepal ♦ Nigeria

**NOTE :** In our corporate policy of continuing product improvement, KESAR CONTROL SYSTEMS reserve the rights to change product specification without notice.

[www.kesarcontrol.com](http://www.kesarcontrol.com)