



Creating Controlled Environments, Ensuring a Sustainable Future

Envisys Technologies is an ISO 9001-2015,
14001-2015 and 45001-2018 Certified Company



Manufacturing Unit In Bengaluru

- ✓ Environmental Test Chambers
- ✓ Salt Spray Chambers
- ✓ Dust Chambers
- ✓ Rain Chambers
- ✓ Altitude Chambers
- ✓ Thermal Shock Chambers
- ✓ Vibration Chambers

Envisys Technologies is an ISO 9001-2015, 14001-2015 and 45001-2018 certified company emerging as one of the leading manufacturers and suppliers of Environmental Test Chambers in the world sufficing the various types of environmental testing needs of spectrum of industries viz., automotive, electronics, defence, aerospace etc., as a one-stop solution provider in environmental testing.

BUSINESS VERTICALS

One-stop Solution Provider in Environmental testing

MANUFACTURING

Manufacturing of Standard & Custom built Environmental Test Chambers



REFURBISHMENT

Refurbishment of Old/unused Environmental Test Chambers of Any Make



MAINTENANCE

Annual Maintenance (Preventive or Comprehensive) of Environmental Test Chambers



REPAIR/SERVICE

Repair/service of Environmental Test Chambers on Call Basis at Customer Sites



RENTALS

Rentals of Environmental Test Chambers on Monthly or Yearly Basis



TESTING SERVICES

Testing Facility of Various Types of Environmental Testing Services on Hourly Basis



Meet Our Founders

The founders of Envisys Technologies after identifying the need for a reliable and competitive supplier in the environmental testing market to suffice the upcoming demand in the market for Environmental Test Chambers especially the one with an ability to customize the requirements of the industries Envisys Technologies is one such venture started by this trio with an objective

to manufacture environmental test chambers that not only satisfy customer needs but add value to the testing/equipment investment of its customers by ensuring the savings in their testing costs by supplying, servicing and supporting customer's competitively through-out the life-cycle of product/s with long standing relationships.

Everything You Need in Test Chamber

Envisys designs and manufactures various types of Environmental Test Chambers starting from smaller standard range of mini and mid-range of test chambers to large custom-built walk-in test chambers to meet the requirements of variety of testing applications.

Ability to customize the requirements is the forte of Envisys since its inception. Envisys is a venture for a global era by leveraging its technical strengths in design and manufacturing of environmental test chambers providing custom environmental testing solutions for electronics, automotive, defence, aerospace and various other industry applications.



Awards and Recognitions



AWARD WINNER FOR
EXCELLENCE IN
MANUFACTURING PRODUCTS



AWARD WINNER FOR
OUTSTANDING SUPPLY
AND SERVICES



AWARD WINNER FOR
ENTREPRENEURIAL EXCELLENCE



AWARD WINNER FOR
BUSINESS EXCELLENCE



ET-SERIES (Mid-Range) Environmental Test Chambers



ET-SERIES (Mid-Range)

Environmental Test Chambers

ET-Series Environmental Test Chambers offering the best of unique and uncompromised features at competitive prices. Ideal for choosing your best suit for variable product sizes from the available range of

standard sizes. High performance & inherent reliability guaranteed for continuous testing of your products. These chambers can be easily movable on the wheels to convenient places and are easy to maintain.

Uncompromised features included at no additional add-on costs...

Models:

| PARAMETERS | SPECIFICATIONS |
|--------------------------|--|
| ET150 - 40T/70T 40H/70H | 550X400X700 MM - Work Space |
| ET300 - 40T/70T 40H/70H | 650X600X800 MM - Work Space |
| ET600 - 40T/70T 40H/70H | 800X850X900 MM - Work Space |
| ET950 - 40T/70T 40H/70H | 1000X1000X950 MM - Work Space |
| ET1400 - 40T/70T 40H/70H | 1100X1350X950 MM - Work Space |
| ET3000 - 40T/70T 40H/70H | 1400X1500X1400 MM - Work Space |
| Volume | 150, 300, 600, 950, 1400 & 3000 Litres |
| Temp | -40/-70 to 180°C |
| Relative Humidity | 10 TO 95% RH |




Construction:

- Block construction with easy reach-in maintenance sections and user- friendly control desk
- Made of SS interiors and CRCS powder coated exterior panels
- Designed to meet variety of testing applications on diverse sizes of testing specimens

Control Console:

ET-touch controller is custom designed to work with Envisys's Environmental Testing chambers. The controller hardware is built with high-performance industrial grade colour touch screen which allows the user to experience clear view of the chamber parameters. The software is designed for user friendly operation with highest level of safety and optimized chamber performance.

| | | | | | |
|---|---|---|---|---|---|
|  |  |  |  |  |  |
| STAINLESS STEEL INTERIORS | HEAVY DUTY DI-CASTED HINGES | HEAVY DUTY CASTOR WHEELS | LED ILLUMINATION | HEIGHT ADJUSTABLE TRAY PROVISION / CABLE DUCT | DOOR MOUNTED PROGRAMMER CONTROL PANEL |

Optional/s:

- Single Set Point PID Controller
- Custom design with additional features as per customer requirements
- Additional SS Tray



Floor Model



Desk Model

EM-SERIES (Mini-Range) Environmental Chambers



EM-SERIES (Mini-Range)

Environmental Chambers

EM-series Mini Environmental Chambers offers flexibility, uniformity and control accuracy required for cost-effective testing. Ideal for testing smaller products such as electronic components, automotive component, these chambers combine superior

performance with compact design that is perfect for small component testing. These chambers can be easily mounted on a laboratory bench top.

Space Saving & Cost Competitive...

Models:

| PARAMETERS | SPECIFICATIONS |
|-------------------|-----------------------------|
| EM30 - 30/65T | 300X350X300 MM – Work Space |
| EM64 - 30/65T/H | 400X400X400 MM – Work Space |
| EM80 - 30/65T/H | 400X400X500 MM – Work Space |
| Volume | 22, 30, 64 & 80 Litres |
| Temperature | -30/-65 to 120 °C |
| Relative Humidity | 20 to 95% RH |



Construction:

- Block construction with easy reach-in maintenance sections and user-friendly control desk
- Made of SS interiors and CRCS powder coated exterior panels
- Designed to meet space constraint laboratories

Control Console:

ET-color touch programmer
OR
Microprocessor based PID controller with precise temperature and humidity control



STAINLESS
STEEL
INTERIORS



HEAVY DUTY
DI-CASTED
HINGES



HEAVY DUTY
CASTOR WHEELS
OR MS STAND



LED
ILLUMINATION



TOP MOUNTED
PROGRAMMER/
SINGLE SET POINT
CONTROL PANEL

Optional/s:

- MS / Aluminium Frame Stand for Desktop Model
- Custom design with additional features as per customer requirements
- Additional SS Tray



EWS-SERIES Walk-in Environmental Chambers



EWS-SERIES

Walk-in Environmental Chambers

Mono-block/Pre-fabricated design EWS-Series Walk-in Environmental Chambers with custom-built features to meet testing needs of large-sized test specimens

- Mono-block walk-in chambers are designed for high-temperature operations using high-grade materials
- Pre-fabricated panel structured walk-in chambers are designed for low and medium temperature operations
- Integrated/remote refrigeration compartments and control panel
- Both Water-cooled and Air-cooled mechanical refrigeration system available with hermetic or semi-hermetic compressors for better efficiency
- Configured for temperature and relative humidity conditioning in the system ensuring high temperature accuracies, reliable test results

Conceptualizing your need for large test space into reality..

Models:

| PARAMETERS | SPECIFICATIONS |
|--------------------------|---|
| EWS10K - 35T/65T 35H/65H | 2200X2200X2000 MM - Work Space |
| EWS12K - 35T/65T 35H/65H | 2200X2200X2400 MM - Work Space |
| EWS14K - 35T/65T 35H/65H | 2200X3100X2000 MM - Work Space |
| EWS16K - 35T/65T 35H/65H | 2200X3100X2400 MM - Work Space |
| EWS18K - 35T/65T 35H/65H | 2200X4100X2000 MM - Work Space |
| EWS22K - 35T/65T 35H/65H | 2200X4100X2400 MM - Work Space |
| Volume | 10000,12000, 14000, 16000, 18000 & 22000 Liters |
| Temp | -35/-65 to 90 °C/150 °C |
| Relative Humidity | 20 to 95% RH |



Control Console:

- ET-touch color touch programmer
- RS-232, RS-485, USB, Ethernet and USB host port
- Built-in web server which allows remote monitoring and operation of your test chamber from any internet connected PC or Smart Phone

Optional/s:

- Remote Control Consoles
- Height adjustable specimen racks
- Cable ports



STAINLESS STEEL INTERIORS



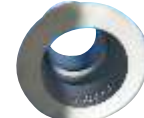
EASILY ACCESSIBLE CONTROL PANEL



SINGLE / DOUBLE DOOR/S WITH TOUGHENED GLASS INSPECTION WINDOW



HEAVY DUTY FIXED METALLIC LEGS FOR MODULAR DESIGNED WALK-IN'S



CABLE DUCT WITH PORT-PLUG



MULTI-POINT LOCKING



ETS-SERIES Thermal Shock Chambers



ETS-SERIES

Thermal Shock Chambers

ETS-Series air-to-air and liquid-to-liquid Thermal Shock Chambers from Envisys are available in different volumes to suit the varied testing needs. Horizontal or vertical models consisting of cold and hot zones with product carrier basket of sizes 50, 100,

150, 300, 600 and 900 litres which transfers the specimen under test between cold and hot zones using electro pneumatic / motorized basket movement.

Environmental Stress Screening Tests using Envisys Thermal Shock Chambers ...

Models:

| PARAMETERS | SPECIFICATIONS |
|------------------------|-------------------------------------|
| ETS - 50 | 500X350X300 MM |
| ETS - 100 | 500X500X400 MM |
| ETS - 150 | 600X500X500 MM |
| ETS - 300 | 800X750X500 MM |
| ETS - 600 | 900X900X750 MM |
| ETS - 900 | 1000X1000X900 MM |
| Volume | 50, 100, 150, 300, 600 & 900 Litres |
| Temp | -70 to 200°C |
| Basket Transition Time | < 10 Secs |



Features:

LED illuminated work-space with multi-pane vacuumized glass view window (on the hot zone)

High grade SS interiors & CRCS powder coated outer panels with durable SS basket with tray slots

Silicone rubber double layered sealing and heavy duty di-casted aluminium locks and hinges

Vertical/horizontal basket changeover using electro-pneumatic/motorized mechanism

Easy access door handle cum HMI mount-front access operating monitor

Construction:

- Mono-Block construction with easy reach-in maintenance sections and user-friendly control desk
- Designed to meet variety of testing applications on diverse sizes of testing specimens
- Made of SS interiors and CRCS Powder coated exterior panels



STAINLESS STEEL INTERIORS



VIEW WINDOW WITH LED ILLUMINATION



ALUMINIUM DI-CASTED DOOR-LOCKS



ELECTRO-PNEUMATIC /MOTORIZED BASKET MOVEMENT



SS SPECIMEN CARRYING TEST BASKET



DOUBLE LAYER SILICONE GASKET



EBS/ECS- SERIES Salt Spray Chambers



EBS/ECS-SERIES

Salt Spray Chambers

EBS/ECS Series Salt Spray Chambers (Basic & Cyclic) are manufactured by Envisys in different versions to meet the variety of testing applications as per international standards viz., ASTM DIN GM JIS MIL etc...

Corrosive Resistance Testing of Your Products...

Models:

| PARAMETERS | SPECIFICATIONS |
|--------------|--------------------------------|
| EBS/ECS 300 | 850X550X650 MM - Work Space |
| EBS/ECS 600 | 900X800X850 MM - Work Space |
| EBS/ECS 900 | 1350X800X850 MM - Work Space |
| EBS/ECS 1500 | 1500X1000X1000 MM - Work Space |
| Volume | 300, 600, 900 & 1500 Litres |
| Temp | Ambient to 50°C |
| Humidity | Optional |



EMS-Series-MINI-Salt Spray Chamber

| | |
|---------|-----------------------------|
| EMS-100 | 600x500x400 MM - Work Space |
|---------|-----------------------------|

OPTIONAL ACCESSORIES FOR ECS MODELS

- ECS-01 Optional Accessory for Renault D17 2028 (ECC-1)
- ECS-02 Remote Refrigeration Unit RRU/A1, RRU/A2
- ECS-03 Spray Header Cycle (Vertical down)
- ECS-04 Immersion Test Cycle
- ECS-05 Wall Wash
- ECS-06 SO2 Gas Dozing
- ECS-07 De-Humidifier Unit
- ECS-08 Multi-Solution Salt Spray
- ECS-09 Controlled Humidity Cycle
- ECS-10 Drain Treatment Unit

Construction:

- High corrosive resistant non-metallic glass-fibre reinforced structure

Optional Control Consoles:

Single set point microprocessor based PID controller for salt spray and saturation temperature control

Touch screen based complete user-programmable console capable of controlling chamber & saturator temperature, perform cyclic operations



Atomizer



Saturator/Bubble Tower



Tape Heaters



Brine-Solution Tank



Hot Air Blower



Internal Spray Cabinet



ER - SERIES Rain Chambers



IPX1-IPX2



IPX3-IPX4



IPX5-IPX6 IPX6-IPX7



IPX9K



JSS 5555/IS9000



JIS D 0203

ER-SERIES

Rain Chambers

ER-Series Rain Chambers are designed and manufactured to meet IP tests viz., IP Test (X1 to X8) IP Test (X4K, X6K & X9K) in different possible configurations

ER-Series Rain Chambers are also built according to various other international standards viz., BIS, JIS, IEC-60529, EN, DIN, JSS-55555, MIL etc.

Determining your product susceptibility to liquid ingress...

Features:

- Designed to meet Ingress Protection Standards
- Built to the requirement from component level testing, room level testing to field testing of large sized products
- High quality corrosive resistance material for construction
- Drip-tank designed and manufactured to meet the desired fall-rate as per standards
- Spray and Jet nozzles are manufactured in single operation CNC with high dimensional accuracies
- Highly reliable water circulation pump and pipeline
- Vibration-free rotating table with variable speed control
- Full-view glass door with wiper

Variety-I

Pre-set programmable timer

Each sub-system with independent selection switch

Single-set point microprocessor based PID controller for IPX9K

Digital RPM indicator and sensor to read table RPM

Analog pressure gauge and flow-meter for water pressure and flow monitoring

Manual operated by-pass valves to set required flow and pressure

Variety-II

Touch screen based complete user-programmable console capable of controlling and monitoring rain test parameters viz., pressure, flow-rate, set duration etc.



IPX9K



IPX1 - IPX4 JIS D0203



IPX3 - IPX4 IPX9K
JIS D0203 JSS 55555



IPX1 - IPX2



IIPX5-IPX6 IPX9K
JIS D203



IIPX3-IPX4



IIPX1-IPX2



IPX1-IPX2 & IPX3-IPX4



EDC - SERIES Dust Chambers



EDC-SERIES

Dust Chambers

Designed to simulate most aggressive dust filled environments as per various international standards to meet the dust test application of electronics, automotive and other components...

Dust Testing... Determining the Ingress Protection...

Models:

| MODELS | EDC - 1000 | EDC - 1500 | EDC-3375 |
|--------------------|-------------------|------------------|-------------------|
| Working Volume | 1000 Litres | 1500 Litres | 3375 Litres |
| Working Dimensions | 1000X1000X1000 MM | 1500X000X1000 MM | 1500X1500X1500 MM |

Performance

Standards of Compliance And Scope

IEC - 60529
IEC-68-2-68
DIN 40050 Part 9
DIN/VDE 470
DIN EN 60068-2-68
SAE J575
MIL
JSS
JIS etc.,

Note: Single system doesn't comply with all standards.
The test systems are manufactured as per user specified or required standards

Control Consoles:

User-friendly touch control/Multi-function programmable timer

Cycling dust test programmable capability

Blower speed regulation to ensure metered uniform dust

Construction:

- Free-flow dust circulation centrifugal blower
- Uniform floating dust simulation across the test space
- Dust pre-heating mechanism for free flow of the dust
- Hopper re-vibration for free fall of settled dust
- Blower speed regulation to ensure metered uniform dust floating inside the test space
- Oil-free vacuum pump to simulate negative pressure for IP6X test
- Volumetric air-flow meter/counter for IP6X test
- View window with illumination
- User-friendly Multi-function programmable timer



Vacuum System



Vacuum Flow-Meter and Regulation



Dust Circulation System



Dust Agitation - JIS



Agitation Blades



Single Set Point/Programmable Controls





EA - SERIES Altitude Chambers



Combined Altitude Temperature and Humidity (CATH) Chambers

CATH (Combined Altitude Temperature and Humidity) Chambers are designed for simulating the actual aerospace conditions for testing aerospace / automotive components at high altitude thermal conditions.

Simulation of actual conditions of aerospace testing...

| | |
|---|--|
| Available Range | 300, 600, 950 and 1400 Litres |
| Models: EA300 - 40T/70T 40H/70H EA600 - 40T/70T 40H/70H EA950 - 40T/70T 40H/70H EA1400 - 40T/70T 40H/70H | Work-Space Dimensions 650X600X800 MM 800X850X900 MM 1000X1000X950 MM 1100X1350X950 MM |
| Temperature | -40/-70°C to 180°C |
| RH | 10% to 95% (optional) |
| Altitude | Up to 10 m bar |



RS-232, RS-485, USB, Ethernet and USB host port
Built-in web server which allows remote monitoring and operation of your test chamber from any internet connected PC or Smart Phone

Control Console:

ET-color touch programmer with built in web server for monitoring and operating from any internet connected PC or smartphone

Construction:

Mono-block construction with easy reach-in maintenance sections and user-friendly control desk.

Additional Features:

- Robust Door Locking
- Feed Thro Connectors
- Adjustable Door Hinges



10mm thick SS interiors



Door Locking Mechanism



Electrical Feed-Thro Connectors



Humidity Butterfly Valve



Vacuum tight D-type silicone rubber sealing



Direct coupled multi-vane rotary vacuum pump

ETV-SERIES

Vibration Chambers

Environmental Chamber with Vibration Shaker Interface provision consists of Environmental Test Chamber, Vibration Shaker Interface Provision, HMI/PC PLC based Control System etc.,

This chamber is designed with unique features to meet the control parameters like Temperature, Humidity (optional) and 3 Axis Vibration Controls as per customer specified requirements.



Combined tests made easy..

Construction:

Bottom of the chamber will have specially designed interchangeable hood with interface mechanism to couple the shaker and chamber during combined tests.

Chamber will be moved up and down vertically through friction-free guided U channel and wheel

Chamber will be moved horizontally manually using heavy duty castor wheel with railing

Models:

| Parameters | Specifications |
|---------------------------|-----------------------------|
| ETV150 - 40T/70T 40H/70H | 550X400X700 MM |
| ETV300 - 40T/70T 40H/70H | 650X600X800 MM |
| ETV600 - 40T/70T 40H/70H | 800X850X900 MM |
| ETV950 - 40T/70T 40H/70H | 1000X1000X950 MM |
| ETV1400 - 40T/70T 40H/70H | 1100X1350X950 MM |
| Volume | 150,300,600,950&1400 Litres |
| Temp | -40/-70 to 180°C |
| Relative Humidity | 10 to 95% RH |



ESC-SERIES

Sub-Zero Chambers

Strip -Cooled Deep Freezer for Sub-Zero Treatment of Razor Blades. Deep Freezer for Razor Blades designed for sub-zero process of razor blades coming out of furnace. It works on conduction principle of heat transfer method to cool the heated-strip-by-sub-zero-process

Available in 2 or 4 strips

| Characteristics | Description |
|-----------------------------|------------------------------------|
| Temperature Limits | Ambient To - 80°C |
| No of Strip pass | 2/4 Numbers |
| Strip slot dimensions | 50 X 15 MM |
| Strip slot to slot | 12 MM |
| Ground to strip pass height | 700 MM |
| Max Speed | 70 Feet /Min |
| Suitable For | Thickness 0.4mm and width max 15mm |



Freezing the Razor Blades...



Freezing the Automotive Components...

Vertical Sub-Zero Chambers for heat treatment applications of automotive components.



Conditioning Section :

Condition section is made of solid block aluminium heat exchanger via conduction method.

Brass sheets 2 or 4 numbers of 50x15mm slots will be provided for passing the strips.



Control Console :

Two numbers of single set point digital temperature PID Controllers
One controller for temperature controlling and another for comparison

| Characteristics | Description |
|---------------------|--|
| ESC 140 – 80-1-T | 25kg/hr |
| ESC 280 – 80-1.5-T | 95kg/hr |
| ESC 600– 80-6-T | 125kg/hr |
| ESC 990 – 80-7.5-T | 250kg/hr |
| ESC 1700 – 80-7.5-F | 225kg/hr |
| ESC 2500 – 80-10-F | 300kg/hr |
| Volume | 140, 280, 600, 990, 1700 & 2500 Litres |
| Temp | Ambient to 80°C |

EO-SERIES

Industrial Ovens / Dryers

Curing, Heat Process, Ageing, Annealing etc., Solutions...

Standard Oven with and Without View Windows

Standard Ovens are manufactured in different sizes Viz., 150, 300, 600,950 and 1400 Liters volumes for high temperature simulation up to 250°C for curing, drying, ageing, annealing or any heat processing tests at higher temperatures Envisys has the oven to meet your needs.



Vacuum Oven

Vacuum, Ovens are manufactured in different sizes Viz., 150, 300, 600,950 and 1400 Liters volumes for high temperature simulation up to 250°C and Vacuum up to 1 m bar



Walk-in Burn-in Chambers

Walk-in Burn-in Chambers are designed and manufactured as per the customer requirements is single block or pre-fabricated structure for high temperature simulations meeting the variety of applications



Industrial Dryers

Designed for Pharmaceuticals & Chemicals, Food, Textiles and other industries. Triple walled in construction for close loop circulation. Available in various capacities of drying. Custom-built to various drying needs



| STANDARD RANGE | Models | No of Trays | Inner Size | Outer Size | Heater Load | Door | Trolley |
|----------------|--------------|-------------|-------------------|-------------------|-------------|------|---------|
| | ETD12 - 150 | 12 | 840X460X920 MM | 1375X660X1375 MM | 6 KW | 1 | - |
| | ETD24 - 150 | 24 | 840X920X920 MM | 1930X1220X1375 MM | 12 KW | 1 | 1 |
| | ETD48 - 150 | 48 | 1020X920X1830 MM | 2035X1220X2185 MM | 18 KW | 1 | 1 |
| | ETD96 - 150 | 96 | 2040X920X1830 MM | 3560X1220X2185 MM | 30 KW | 2 | 2 |
| | ETD192 - 150 | 192 | 2040X1830X1830 MM | 3560X2080X2185 MM | 54 KW | 2 | 4 |

ETC-SERIES

Industrial Chillers

ETC-Series air-cooled water chillers designed for industrial application of various industries. Built to operate in stringent ambient conditions with continuous duty applications

Chilling Solutions from Envisys ...

Features :

- Eco-friendly Chillers with Compact Design
- High flow-rate Low pressure-drop evaporator
- High-efficiency refrigeration compressor
- Consistent outlet water temperature
- Built for operating in stringent ambient
- Accurate control and measurement system

Construction Features :

- ▶ Eco-friendly refrigerant
- ▶ Hermetic scroll/reciprocating compressors
- ▶ Finned coil condenser with copper tubes and aluminium fins
- ▶ Axial fans die-casted with aluminium and crescent shaped blades
- ▶ BPHE for evaporation
- ▶ Storage tank with filling/drain valves, pump and pressure gauge
- ▶ Level sensors
- ▶ Low/High refrigerant pressure switches
- ▶ Pressure gauges
- ▶ Phase monitor against phase loss, phase reversal
- ▶ Compressor crankcase heater



Single set point Digital Temperature controller will be provided with sensor to control the water temperature in the tank during re-circulation

ETF-SERIES

Temperature Forcing Systems

A micro cooling unit designed to simulate the various working temperature conditions on the electronic chip boards.

Construction Features :

- ▶ Precise Temperature Accuracies with Reliable Test Results
- ▶ Temperature Limits: -40/-60°C to 30°C
- ▶ Temperature Accuracies: $\pm 2-3^{\circ}\text{C}$
- ▶ Temperature Rate of Change: 20-25 deg /min (Non-linear)
- ▶ Maintenance Free Access to The System
- ▶ Self-Sufficient System
- ▶ Compact with small footprints suitable for any space constraint laboratories
- ▶ Low decibel system
- ▶ Suitable for testing electronic chips / devices
- ▶ Environmentally friendly refrigerants
- ▶ Efficient heating
- ▶ Microprocessor based single set point PID temperature controller with data logging
- ▶ Flexible hose up to 2.5-3.0m
- ▶ Interchangeable heads according to chip size.
- ▶ Inbuilt electrical control panel with switchgear system



Control Console :

Hot and Cold temperature control system with either Single Set Point or Dual Loop controllers of Autonics make as per customer choice and preference Microprocessor based PID controller with precise temperature control Heating will be controlled through zero-crossing relay control system



EWS-SERIES

Solar Panel / PV Module Test Chambers

EWS-Series Environmental Test Chambers for Solar Panels and PV Modules testing with uncompromised features at competitive prices. Ideal for choosing your best suit for variable sizes of Solar Panels and PV Modules from the available range of standard and Custom-Built Chambers. High performance & inherent reliability guaranteed for continuous testing of your products

Thermal Cycle, HF and Damp Heat...

| Standards | |
|------------|--|
| IEC 61215 | The standard table indicates the sample test procedures of solar panels/PV module testing according to the most recognized standards. Envisys can design and manufacture chambers according to the customer needs on specified standards, sizes of panels, ramp rate or if the customer wishes to have independent chamber for damp heat cycle, Envisys can provide the same to meet customers ASTM E1171 demand for testing the panels. |
| IEC 61646 | |
| IEC 61730 | |
| IEC 62108 | |
| UL 1703 | |
| ASTM E1171 | |



Control Console :

Color Touch Screen Controller is built around high-performance core hardware with integrated functionality. Touch screen controller is constructed with Cast Aluminium IP 66 protected enclosure for front screen with many added features viz., Dual USB host port, on board 256MB non-volatile flash memory and extended external memory up to 2 GB.



ETU-SERIES

Environmental Chambers For UTM Interface

ETU-Series Environmental Test Chamber for conducting environmental tests at elevated and freezing temperatures in order to perform integrated tests for hot & cold conditions on universal testing machines.

Thermal Chambers from Envisys for Interfacing with any UTM's...

Temperature-Relative Humidity-Salt Fog Integrated Test Apparatus for UTM Interface is designed to meet the specific test requirement of integration test, for this application, testenclosure is designed for the rig interface in split units, for this from the RC (Remote conditioning) unit purge the conditioning air to test enclosure

Specialized Features of UTM Interface Chambers:

- ▶ Designed in custom sizes as per the requirements.
- ▶ Temperature range +/-30 / +/-65 to 80 °C and 20% to 95% RH
- ▶ LN2 cooling optional
- ▶ Control features are optional



TEMPERATURE - RH - SALT FOG INTEGRATED TEST EQUIPMENT
FOR UTM INTERFACE



Custom designed UTM Chambers designed in different sizes as per the requirement



UTM Miniature Chambers



Top and Bottom of the chamber for interfacing with UTM interfacing slots and cover

ETB-SERIES

Battery Test Chambers

Envisys – Environmental Chambers for Battery Testing are designed and manufactured to meet various types of battery testing requirements of its customers by keeping all safety options in mind against any harmful explosions or ignitions and user safety while testing these batteries for environmental stress conditions

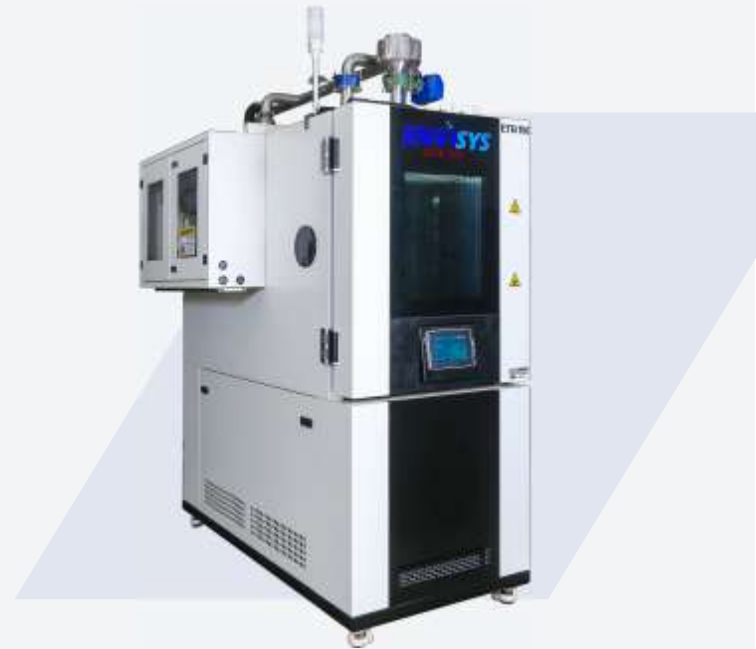
| | |
|------------------------|------------------------------------|
| Available Range | 150, 300, 600, 950 and 1400 Litres |
| Temperature | -40/-70 °C to 180 °C |
| RH | 10% to 95% (optional) |

Safe Testing of Batteries Against Environmental Stresses...

These Chambers are designed and manufactured to meet various types of battery testing requirements of its customers by keeping all safety options in mind against any harmful explosions or ignitions and user safety while testing these batteries for environmental stress conditions.

Safety Features :

- ▶ Fire Suppression System (Co2).
- ▶ Automatic Air Exchange System.
- ▶ Mechanical Locking & Fire Extinguisher System.
- ▶ Mechanical Pressure Relief Port.
- ▶ Fire Detection/Alarm System (O2 & CO)
- ▶ Status Indication & Smoke Detection.



Status Indication



Temperature Safety Controller



Electro Magnetic Lock



Door Locking Mechanism



Reversible Pressure Relief Flap



Automatic Air Exchange System*



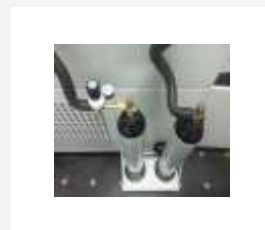
Fire Detection/Alarm System (O2 & CO)



Chamber Ventilation Blower & Exhaust Port



Mechanical Pressure Relief Port



Fire Suppression System (Co2)

EUV-SERIES

UV Chambers

Ultraviolet Rays...

Products in their lifespan are exposed to sun rays including ultraviolet (UV) light. UV light can cause degradation and discoloration of materials, which can affect the performance and lifespan of certain products like PV panels. To prevent this, UV light simulation is used to test the durability and UV resistance of products.



The results of a UV light simulation test can be used to determine the UV resistance and durability of the products. If the product shows signs of degradation or discoloration, it may not be suitable for long-term use in outdoor environments. If the product retains its color and appearance, it can be considered UV resistant and suitable for outdoor use.

UV Light Simulation Equipment

There are several types of UV light simulators that can be used to test products. The most common types include: Xenon arc lamps: These lamps simulate the full spectrum of sunlight, including UV, visible, and infrared light. Fluorescent UV lamps: These lamps emit UV radiation in the UVA and UVB range. Metal halide lamps: These lamps emit UV radiation in the UVA and UVB range, as well as visible light. The choice of UV light simulator will depend on the specific requirements of the products being tested.



UV light simulation is an important tool for testing the durability and UV resistance of various products. By using a UV light simulator and following the appropriate test procedure, it is possible to identify any potential issues with products before they are deployed in outdoor environments



Custom Built Test Systems

Ability to customize the requirements is the forte of Envisys since its inception. Envisys is a venture for a global era by leveraging its technical strengths in design and manufacturing of environmental test chambers providing custom environmental testing solutions for electronics, automotive, defence, aerospace and various other industry applications.



Drop-Test Machine

Drop-Test Machine from Envisys designed to meet customized drop-test requirements. Automated or semi-automated designs are available with adjustable drop height range 400-1500 mm with load bearing capacity up to 10 kgs and more. Motorized adjustment of height using gear motor for quick and easy operation



Thermo Mechanical Test Chamber

Consisting of self-standing thermal chamber with in-built air-cooled refrigeration system and control panel integrated with mechanical structure, hydraulic power pack and cylinder for testing electrical insulators for tensile and cantilever tests as per standards.



Drive-in Test Chamber

Walk-in Environmental Test Chamber for vehicle level testing of two-wheeler vehicles for temperature and humidity parameters as per automotive standards with side view thro's of entire vehicle during testing.



Custom - Built Test Systems



Environmental Test Chamber for Steering Boots Endurance Testing

Environmental Test Chamber integrated with three axes actuator mechanical test rig for combined tests of steering boots endurance testing application



Walk-in Salt Spray Chamber

Walk-in Salt Fog Chamber from Envisys with spacious work spaces built at site using pre fabricated corrosive resistant materials for simulating salt fog conditions as per various standards for testing larger samples



Vacuum Degassing Chamber

Vacuum Degassing (outgassing) Chamber to perform degassing (outgassing) procedures to reduce outgassing from materials. The system is operated in the condition of temperature range of 50 to 120°C and low pressure of 1×10^{-6} Torr



Custom - Built Test Systems



Oil Circulating Oven

Oil Circulating Ovens from Envisys custom designed to meet the flame-proof testing of chemical explosives with indirect heating using thermo fluids as heating media. The system is designed with remote control units for testing the explosives as per standards



Environmental Test Chamber for skid mounted door fixing provision to test P4 speed sensors

Environmental Test Chamber with skid mounted door fixing provision with servo motor integration to rotate the internal disc of 4000 rpm to test P4 speed sensors used in various defence applications which will have the provisions of gap and angle adjustment for testing the sensors at rated speed with different angle and gaps.



Railway Sleeper Test Chamber with Load Test Bench

Customized 500 kN hydraulic load test bench with integrated -60 °C to + 60 °C environmental test chamber for testing full and half railway sleepers with various load and environmental conditions.



Impact Test Set Up

Impact Test Set-Up from Envisys is designed to simulate mechanical abuse of cells and batteries from an impact that can result in internal short circuit.



Custom - Built Test Systems



Electric Cycler - Climatic Chamber

Electric Cycler Climatic Chamber from Envisys is custom designed to meet the testing of automotive mirrors during automatic folding and unfolding of mirrors in actual conditions



Custom Rain Simulation Chamber

Custom Rain Simulation Chamber designed by Envisys for simulating the different rain patterns and IR



Air/N2 Cooled Cylinder Cooling Chamber

Custom designed air/N2 cooled chamber for cooling the cylinders up to -25 deg C with automatic push-pull conveyor with limit switch interlocks and pneumatic vertical door opening provisions.



Custom - Built Test Systems



Combined Vibration and Climatic Test System (CVC)

Combined Vibration and Climatic (CVC) Test System is designed and manufactured by Envisys to perform combined tests i.e., vibration test in vertical directions with high/low temperature, humidity and vacuum test as per MIL STD 810G



Intensified Standard Alternating Trial chamber (ISAT Chamber)

Custom-built Intensified standard alternating trial chamber (ISAT Chamber) with remote conditioning unit at a distance of 1 meter from the test space connected through an insulated ducting



Mud Water Test Equipment

Chamber contains agitator motor and speed drive with multiple blades to splash the muddy water into automotive components



Custom - Built Test Systems



Vibration Interface Chamber

Larger sized Vibration Shaker Interface chamber up to 7200 liters volume for integrating with electro-dynamic shaker custom designed by Envisys for testing larger sized specimens for integrated tests viz., thermal and vibration simulations



Battery Crush Test Chamber

Battery Crush Test Chamber used for lithium-ion battery crush tests. The equipment simulates force, voltage drop and deformation of the battery during test with display communications. Pressure (max kN to 20kN) is applied using inbuilt hydraulic power pack



E-motor Testing Chamber

E-motor testing chamber is designed by Envisys to simulate the required climatic conditions inside a confined work-space for a e-motor test inside the test space externally connected to dyno test rig through an extended shaft on the door of the chamber with a chamber movement facility on the track.



Custom - Built Test Systems



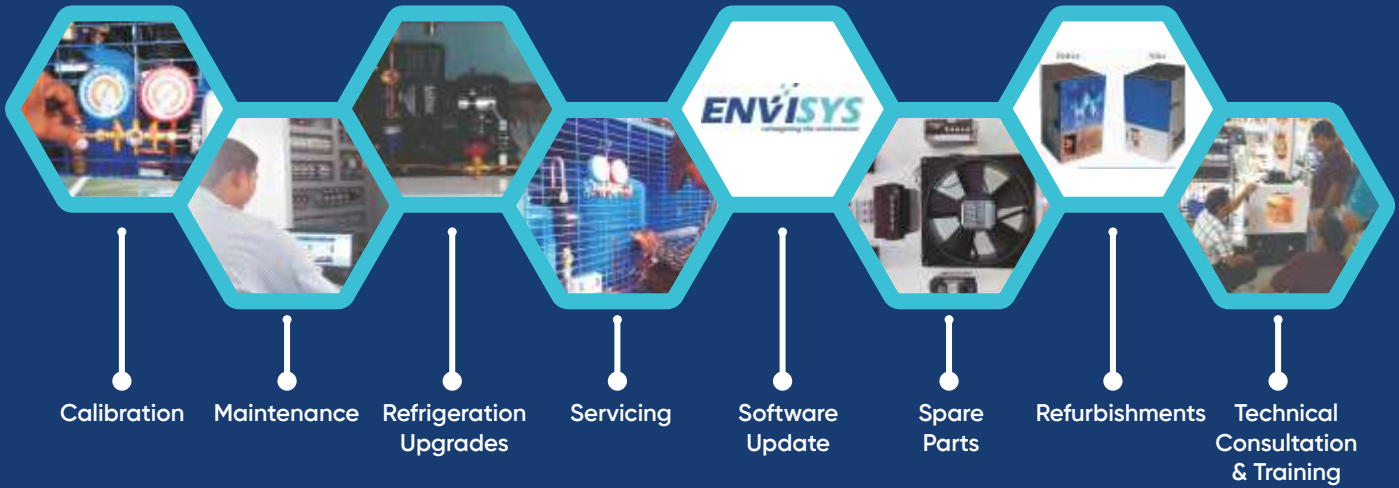
Fogging Test Chambers

A fogging test chamber is a specialized piece of equipment used to perform fogging tests on headlamps. The chamber creates a controlled environment that simulates the conditions that can cause fogging, such as high temperature, high humidity, infra-red radiation and rain simulation. In real world both sides of lamp are exposed to different environmental conditions. For example head lamp of the car, one side will be exposed to heat of the engine and humidity of the climate and the other side (lens side) will be exposed to ambient temperature, humidity, sun radiation and rain.



Air to Water Thermal Shock Test Chamber

Air to water thermal shock testing is commonly used in industries such as automotive, aerospace, and electronics, where materials and products may be exposed to sudden and extreme temperature changes in the field. By subjecting a specimen to air to water thermal shock testing, manufacturers can evaluate the performance of the material or product under these conditions and make any necessary design changes to improve its durability and reliability.



Spectrum Of Services

Refurbishments



Envisys undertakes the refurbishment of old Environmental Test chambers/systems to refurbish as per latest technology to make them new for re-use.

Repair Services



Envisys provides service to all kinds of Environmental Test Chambers. The break-down test chambers will be inspected and repaired to working condition.

Maintenance Contracts



Envisys offers maintenance contracts to all types of Test Chambers to completely eliminate down-time costs of testing systems. Preventive or Comprehensive maintenance contracts can be availed.

Rentals



Envisys provides the rentals of selected range of Environmental Test Chambers on monthly/daily rental basis. Rental services are limited to India only.

Committed to Serve Our Customers

We at Envisys are committed to provide all the products and services mentioned in our profile with great quality and utmost dedication towards our work

Give us a call or shoot us an e-mail to know how we can help you.

Testing Services



Testing facility for various types of environmental testing services on hourly basis

Our Customer Help Desk



+91 80 28377888



+91 7353599800

Other Services



Calibration

Envisys provides the calibration services through an NABL accredited laboratory for limited range of its products.



Technical Consultation

Envisys provides the calibration services through an NABL accredited laboratory for limited range of its products.



Refrigeration Upgrades

Refrigeration upgrades are offered by Envisys for incorporating the latest technology to reduce electricity, emission and operating costs of its customers



Spare Parts

Envisys also supplies the spare parts for range of environmental test chambers manufactured by Envisys available in stock at the facilities of Envisys



Software Upgrades

Envisys also supplies the spare parts for range of environmental test chambers manufactured by Envisys available in stock at the facilities of Envisys



Training

Team of professionals from Envisys conducts periodic trainings on latest technologies & trends in the environmental testing to build facilities of Envisys awareness level among its users.

In Envisys it's the PEOPLE, PROCESS TECHNOLOGY that matters in building a quality system of high reliability in environmental simulation systems. It's the competency in design, expertise and experience that differentiates the products of Envisys from competitors

PEOPLE

- Qualified
- Experienced
- Expertise
- Knowledgeable
- Competent
- Motivated
- Committed
- Loyal
- Continuous Improvement
- Adaptability to Change



TECHNOLOGY

- Advanced
- Leading Edge
- Ingenious Design
- Design Competency
- Design Expertise
- Design Experience
- Maintenance Free
- Web-enabled
- User-Friendly
- Safety-Covered

PROCESS

- Ability to customize
- Alignment to customer needs
- Changing testing needs flexibility
- Building competitive differentiation
- Just-in-time Techniques
- Efficient
- Transformation
- Streamlined
- Best Practices
- Flexibility

CUSTOMERS OF ENVISYS

Automotive



AKZO NOBEL INDIA

BRIDGESTONE AUTOMOTIVE

TRITON VALVES

ROOTS INDIA

ADVIK

SMR AUTOMOTIVE

HYUNDAI

MOTHERSON AUTOMOTIVE

ATHER ENERGY

BAJAJ

TVS RUBBER

HMCMM

KNORR-BREMSE

SPARK MINDA

ZF INDIA

MERCEDES BENZ

SEG AUTOMOTIVE

KIA MOTORS

VARROC GROUP

I-WORKZ AUTOMOTIVE

TVS MOTOR COMPANY

HERO MAGNETI MARELLI

SUPRAJIT ENGINEERING

ROYAL ENFIELD

BRAKES INDIA

MAHINDRA AND MAHINDRA

OLA ELECTRIC

THE AUTOMOTIVE RESEARCH ASSOCIATION OF INDIA (ARAI)

GENERAL MOTORS

VEONEER INDIA

UNO MINDA LIMITED

CONTINENTAL

DENSO KIRLOSKAR

PRICOL

WORD OF RIVER

ULTRAVIOLETTE AUTOMOTIVE

SEG AUTOMOTIVE

VOLVO

Test Labs



BE ANALYTIC SOLUTIONS

TUV RHEINLAND

SKC ENVIRON LABS

UL INDIA

YADAV MEASUREMENTS

WIPRO TARANG LAB

BUREAU OF INDIAN STANDARDS

ELCIA CLUSTER

ENVITEST

ELCA LAB

HCL TECHNOLOGIES

AANCHAL TECHNO SOLUTIONS

MOHALI HITECH CLUSTER

CSA GROUP

QVC CERTIFICATION SERVICES

ESDM CLUSTER

ELECTRONICS REGIONAL TEST LABORATORY (ERTL)

EMTAC LABORATORIES

TUV INDIA

QUALITEK LABS

VIMTA LABS

KARNATAKA TEST HOUSE

TUV NORD

Defence & Aerospace



ALPHA DESIGN TECHNOLOGIES

CQAE (WE)

SIKA INTERPLANT SYSTEMS

MKU LIMITED

NUCON AEROSPACE

MICROSEMI

SHAR – SATISH DHAWAN SPACE CENTRE (ISRO)

BOEING

SASMOS HET TECHNOLOGIES

MAK CONTROLS & SYSTEMS

CONTROLLERATE OF NAVAL ARMAMENT INSPECTION

SOCIETY FOR INTEGRATED CIRCUIT TECHNOLOGY &

APPLIED RESEARCH (SITAR)

NATIONAL AEROSPACE LABORATORIES (NAL)

BHARAT ELECTRONICS LTD (BEL)

BHABHA AUTOMIC RESEARCH CENTRE (BARC)

Electrical & Electronics

LIGHTING TECHNOLOGIES
ENTERPRISE SOFTWARE
SOLUTIONS LAB
TATA POWER SED
MAXLINEAR TECHNOLOGIES
GE SOURCING
INFINERA
MATRIX COMSEC
TROLEX INDIA
ELCOM INTERNATIONAL
ANDREW TELECOMMUNICATIONS
ITI LTD
PARK CONTROLS &
COMMUNICATION
DATASOL
COMDE DERENDRA INDIA
ADI-EMT
CROMPTON GREAVES
ECIL
TEJAS NETWORKS
DEEPTI ELECTRONICS & ELECTO
OPTICS
ON SEMICONDUCTORS

FCI – AMPHENOL
GE INDIA
MICRON EMS
NVIDIA
ERDA
OPTIMIZED ELECTROTECH
LARSEN & TOUBRO
BRAY CONTROLS
MANATEC ELECTRONICS
SYSCON INSTRUMENTS
OEN INDIA LTD
AMPHENOL OMNICONNECT
AXON INTERCONNECTORS
ROCKWELL AUTOMATION
FOXCONN- CRESCENT
TECHNOLOGIES
E-CON SYSTEMS
MICRON TECHNOLOGY
OPERATIONS
SKIPPERSEIL
CYIENT DLM
SLING MEDIA
AITECH INNOVATION

KALKI COMMUNICATIONS
TECHNOLOGIES
SLN TECHNOLOGIES
APAR INDUSTRIES
R&M ELECTRONICS
CYPRESS SEMICONDUCTORS
AVANTEL
CENTUM ELECTRONICS
RADIALL INDIA
WISTRON
HONEYWELL TECHNOLOGY
SOLUTIONS
HUBBELL INDIA
TE CONNECTIVITY
PREMEIR EVOLVICS
INFINEON TECHNOLOGIES
RAKON INDIA
VISHAY COMPONENTS
LOTUS WIRELESS
KAYNES TECHNOLOGY
SCHNEIDER ELECTRIC
IWAVE SYSTEMS
MELZ INDCOSYS SOLUTIONS

Others

PRAXAIR INDIA
GE HEALTHCARE
SKF TECHNOLOGIES
JSW STEEL
SOLID STATE SYSTEM
SAAB ENGINEERING
INGERSOLL RAND
BISS-ITW
ESAB INDIA
Dr. WIESNER TEST & AUTOMATION
ANVIN TECHNOLOGIES
LAKSHMI TECHNOLOGY AND ENGINEERING
INDUSTRIES
SAMAH RAZOR BLADES INDUSTRIES
ECONOMIC EXPLOSIVES
ARDEX ENDURA
MOHALI HITECH CLUSTER

BOSCH
GLOSIL INTERNATIONAL
ENPHASE
DANFOSS INDUSTRIES
NASH INDUSTRIES
MOSIL LUBRICANTS
AVL INDIA
HITACHI METALS
COLDADGE INDIA
ASHIRVAD PIPES
BECTON DICKINSON
BICELLI GECO HYDRAULICS
RENEW SOLAR ENERGY
VELODYNE LIDAR
AGP WORLD WIDE OPERATIONS
FUJITEC INDIA
BAXTER INNOVATIONS



Envisys Technologies Pvt Ltd



Unit 1
SB-118, 3rd Cross Road, 1st Stage,
Peenya Industrial Estate, Bengaluru - 560058



Unit 2
SB-58, 2nd Cross Road, 1st Stage,
Peenya Industrial Estate, Bengaluru - 560058



enquiry@envisys.tech



Main: +91-741-145-5246
Office: +91-802-837-7888

ISO 9001-2015, 14001-2015
and 45001-2018 certified

