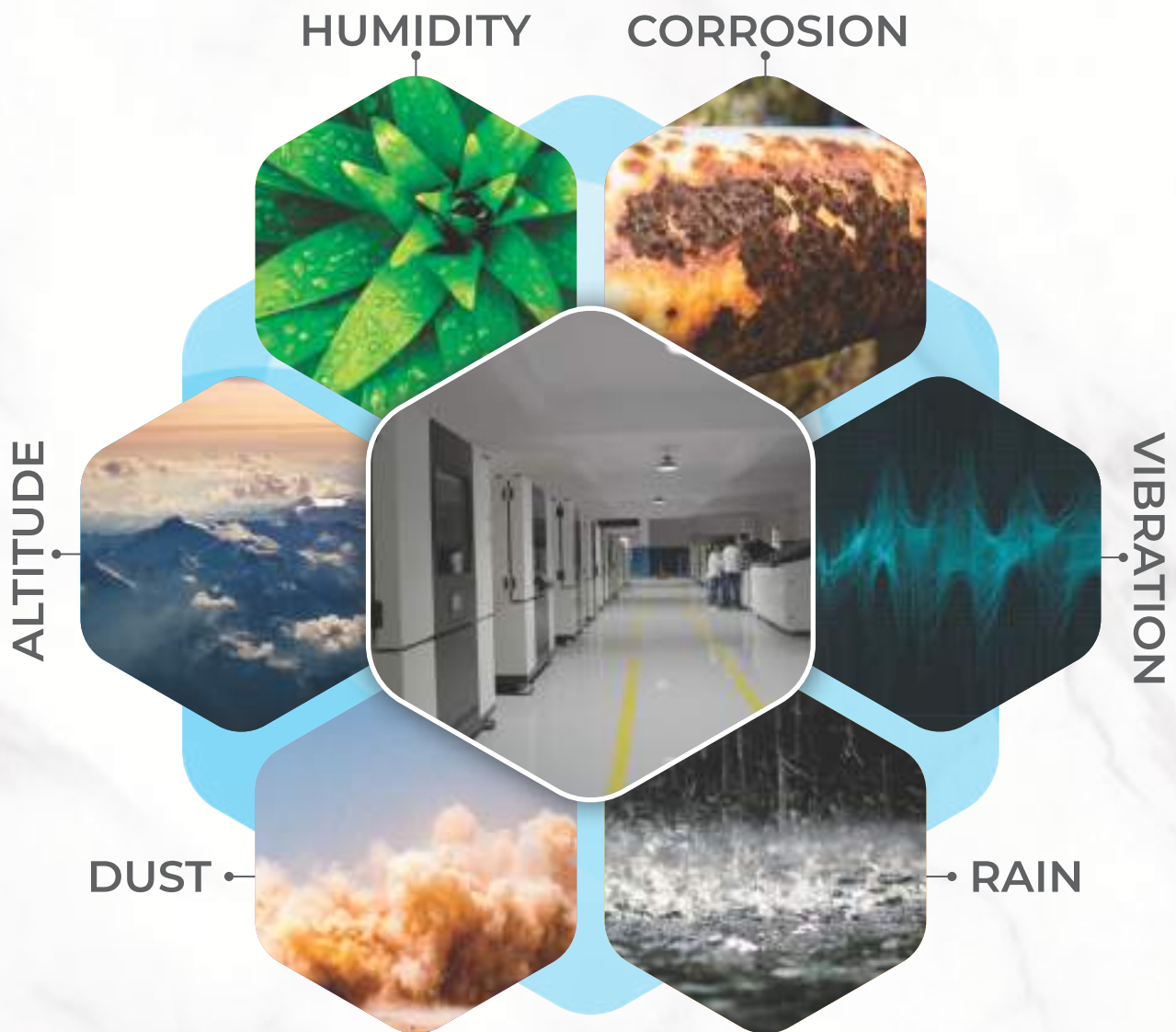




ENVIRONMENTAL TESTING SOLUTIONS

Your Partner For All Your Environmental Testing Needs...

MANUFACTURE, TESTING, SERVICE, RENTALS



ENVISYS TECHNOLOGIES PVT LTD
BENGALURU - INDIA



MANUFACTURING UNIT IN BENGALURU-INDIA

- 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

KEY PRODUCTS OF ENVISYS

Mid-Range Temperature – Humidity Chambers		Mini-Range Temperature – Humidity Chambers	
<p>Temperature Range: -40/-70°C to 180°C</p> <p>Relative Humidity (RH) Range: 10% to 95%</p> <p>Capacities Available: 150, 300, 600, 950, 1400, 3000 liters & Custom-built</p>		<p>Temperature Range: -30/-60°C to 120°C</p> <p>Relative Humidity (RH) Range: 20% to 95%</p> <p>Capacities Available: 30, 64, 80, 100 liters & Custom-built</p>	
Drive-in / Walk-in Range Temperature – Humidity Chambers		Mid-Range Salt Spray Corrosion Test Chambers	
<p>Temperature Range: -30/-65°C to 90/150°C</p> <p>Relative Humidity (RH) Range: 20% to 95%</p> <p>Capacities Available: 10000, 12000, 14000, 16000, 18000, 22000 liters & Custom-built</p>		<p>CYCLIC CORROSION TEST CHAMBERS: Temperature Range: Ambient to 50°C Optional/s: Remote Refrigeration Unit, Spray Header Cycle, Immersion Test Cycle, Wall Wash, De-humidifier, Multi-solution Salt Spray, Controlled Humidity Cycle, Drain Treatment Unit etc.,</p> <p>BASIC SALT SPRAY TEST CHAMBERS: Temperature Range: Ambient to 50°C Capacities Available: 300, 600, 900, 1500 liters</p>	
Battery Testing Chambers With EUCAR Safety Features		IP (Ingress Protection) – Rain & Dust Chambers	
<p>Temperature Range: -40/-70°C to 180°C</p> <p>Relative Humidity (RH) Range: 10% to 95% (If applicable)</p> <p>Capacities Available: 150, 300, 600, 950, 1400, 3000 liters</p> <p>Safety Features to cover EUCAR hazard levels: Fire Suppression System, Automatic Air Exchange System, Mechanical Locking, Fire Extinguisher, Pressure Relief Port, Fire Detection/Alarm System, Status Indication, Smoke Detection etc.,</p>		<p>RAIN: IP Tests: IPX1-IPX9K Other Tests: JIS, ISO, JSS etc.,</p> <p>DUST: IP Tests: IP5X & IP6X Other Tests: IEC, DIN, SAE, MIL, JSS, JIS etc.,</p> <p>Internal Test Space Volumes: 1000, 1500, 3375 liters & Custom-built</p> <p>Standards of Compliance: IEC 60529, 68-2-68, DIN 40050 Part 9, DIN/VDE 470, DIN EN 60068-2-68, SAE J575, MIL, ISO 20653, DIN 40050-9, JIS-D0203, ISO9000/JSS 55555 etc.,</p>	
Thermal Shock Chambers		Vibration Shaker Interface Chambers	
<p>Temperature Range: -70°C to 200°C</p> <p>Basket Transition Time: < 10 Secs</p> <p>Capacities Available: 50, 100, 150, 300, 600, 900 liters & Custom-built</p> <p>Features: Available in Vertical and Horizontal movement of basket</p>		<p>Temperature Range: -40/-70°C to 180°C</p> <p>Capacities Available: 600, 950, 1400, 3000 liters & Custom-built</p> <p>Features: Interfaceable with variety of shakers for vertical, horizontal and 3-axis vibrations.</p>	

Please visit our website / blog www.envisys.tech.com
for industry- wise standard / custom products / projects executed by Envisys



ENVIRONMENTAL TESTING SERVICES



ENVISYS TECHNOLOGIES PVT LTD

An ISO 9001, 14001 & 45001 Certified Company

VISTARA LABS CURRENT TESTING SCOPE

Environmental Test Chamber Volume: 1500 litres Internal dimension : 1000x1000x1500 mm Temperature: -70°C to 180 °C Pay load : 100kg UDL Ramp rate : 3°C/min as per IEC		Walk-in Environmental Chamber Volume: 6000 litres Internal dimension :1600x1500x2500 mm Temperature: -65°C to 180°C Humidity: 20% to 95% RH Pay load : 200 kg UDL Ramp rate : 5°C / min as per IEC	
Thermal Shock Chamber Basket dimensions :800X750X500 mm Basket load: 10-15kg Temperature: -75°C to 200°C Hot work zone temperature: 70°C to 190 °C Cold work zone temperature: 0°C to -65°C No of zones : 2 zones with pneumatic transfer		Salt Spray Corrosion Test Chamber Volume: 900 litres Internal dimension :1350X800X850 mm Chamber temperature: ambient to 50°C Saturator temperature: ambient to 65°C Dry temperature: ambient to 70°C Controlled Humidity: 45% - 95% RH Pay load : 200 kg UDL Test standards compliance: ASTM B117, ISO 9227, JSS 55555, MIL 810-D	
Dust Chamber (IP Test Chamber for Dust) Volume: 1000 litres Internal dimension :1000x1000x1000 mm Pay load : 40 kgs Test standards compliance: IEC 60529, ISO 20653 Test type: IP5X, IP6X		Rain Chamber (IP Test Chamber for Water) Volume: 1400 litres Internal dimension :1190x1170x1250 mm Pay load : 30 kgs on rotating table Test standards compliance: IEC 60529, ISO 20653 Test type: IPX1, IPX2, IPX3, IPX4, IPX5, IPX6, JSS55555	

UPCOMING FACILITIES

Electrodynamic Shaker & Shock Test * 4000 Kgf peak Sine and rms Random, * 100 'g', 50mm displacement, 1.8 mtr/sec velocity * 440 mm Armature diameter * HST 1000X1000 MM. SHE 1000 X 1000 MM.		Vibration Shaker Interface Environmental Chamber Temperature Range: -70° deg C to 180° deg C Internal Test Space Volume: 1000 Liters Internal Test Space Dimensions: 1000 mm Wx 1000mm D X 1000 mm H Temperature Ramp Rate: 5° deg C Relative Humidity Range: 10% to 98%	
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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
ET 1400 - 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



* The Temperature Ramp Rates Are Optional Varying From Standard Range Of 3 °c To 20 °c Per Minute

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:

Sl no	Model no	Test space dimensions in mm (WxDxH)	Temperature range	RH range		Temperature range for RH control
Bench/Desk Model						
1	EM30-30T-D	300x300x350	-30 to 100°C	NA		
2	EM64-30T-D	400x400x400		NA		
Floor Model						
3	EM64-30T	400x400x400	-30 to 150°C	NA		
4	EM64-30H			35%RH to 95%RH	20°C to 85°C	
5	EM64-60T		-60 to 150°C	NA		
6	EM64-60H			35%RH to 95%RH	20°C to 85°C	
7	EM80-30T	400x400x500	-30 to 150°C	NA		
8	EM80-30H			35%RH to 95%RH	20°C to 85°C	
9	EM80-60T		-60 to 150°C	NA		
10	EM80-60H			35%RH to 95%RH	20°C to 85°C	
11	EM100-30T	500x400x500	-30 to 150°C	NA		
12	EM100-30H			35%RH to 95%RH	20°C to 85°C	
13	EM100-60T		-60 to 150°C	NA		
14	EM100-60H			35%RH to 95%RH	20°C to 85°C	

Note: The temperature ramp rates are optional varying from standard range of 1 °C to 5 °C per minute for > EM-80 models

"Features"



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
- Additional SS Tray
- Custom design with additional features as per customer requirements



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

Note: The custom-built work-space and temperature ramp rates are also designed as required starting from 1°C upto 10°C per minute.

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

For Single block Design: EWS 20% to 95% in the climatic range of 20°C to +80°C
For PUF Design: EWM 20% to 65% in the climatic range of 20°C to +80°C



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



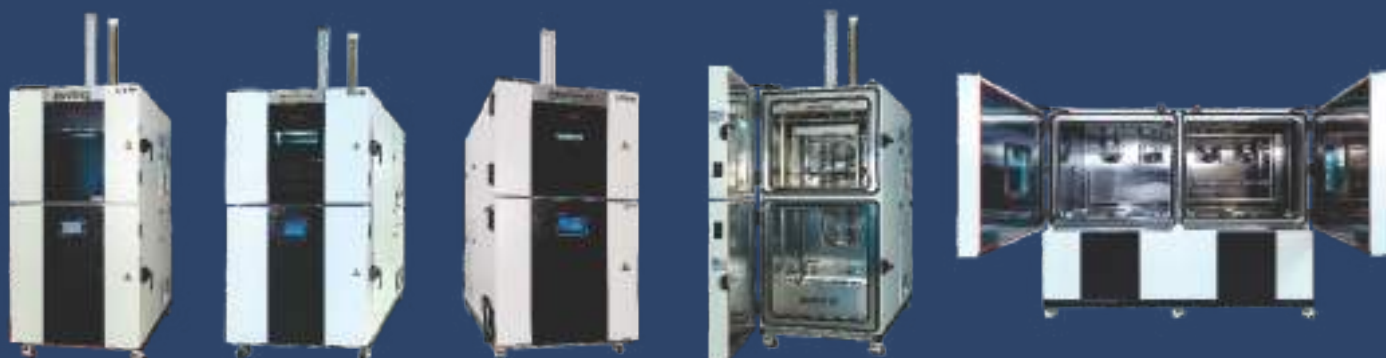


Horizontal Model



Vertical Model

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	-75 to 200°C
Basket Transition Time	< 10 Secs
Recovery: Basket Recovery Time will be < 5min 150°C and -40°C subject to conditions	



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



BASIC MODEL



CYCLIC MODEL

EBS/ECS- SERIES Salt Spray Chambers



Cyclic Model With
View Window and RRU



Walk-in Salt Spray Chamber



Mini-Salt Spray Chamber



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
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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

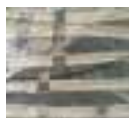
Touch screen based complete user-programmable console capable of controlling chamber & saturator temperature, perform cyclic operations



Atomizer



Saturator/Bubble Tower



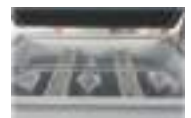
Tape Heaters



Brine-Solution Tank



Hot Air Blower



Internal Spray Cabinet



ER – SERIES
Rain Chambers



IPX1-IPX2



IPX3-IPX4



IPX5-IPX6



IPX7-IPX8. Tank



IPX9K

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.



Cell Phone IP Testing Cabinet



Drive-in Rain Facility



IPX9K



Large IPX3-IPX6 IP water spray Set-up



IPX1 - IPX4 JIS D0203



IPX1 - IPX2



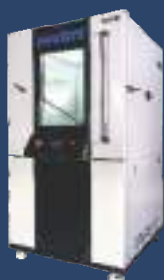
IPX1-IPX2 & IPX3-IPX4



Windsheild Rain Sensor Testing



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

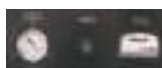
Blower speed regulation to ensure metered uniform dust

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



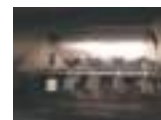
Vacuum Flow-Meter and Regulation



Dust Circulation System



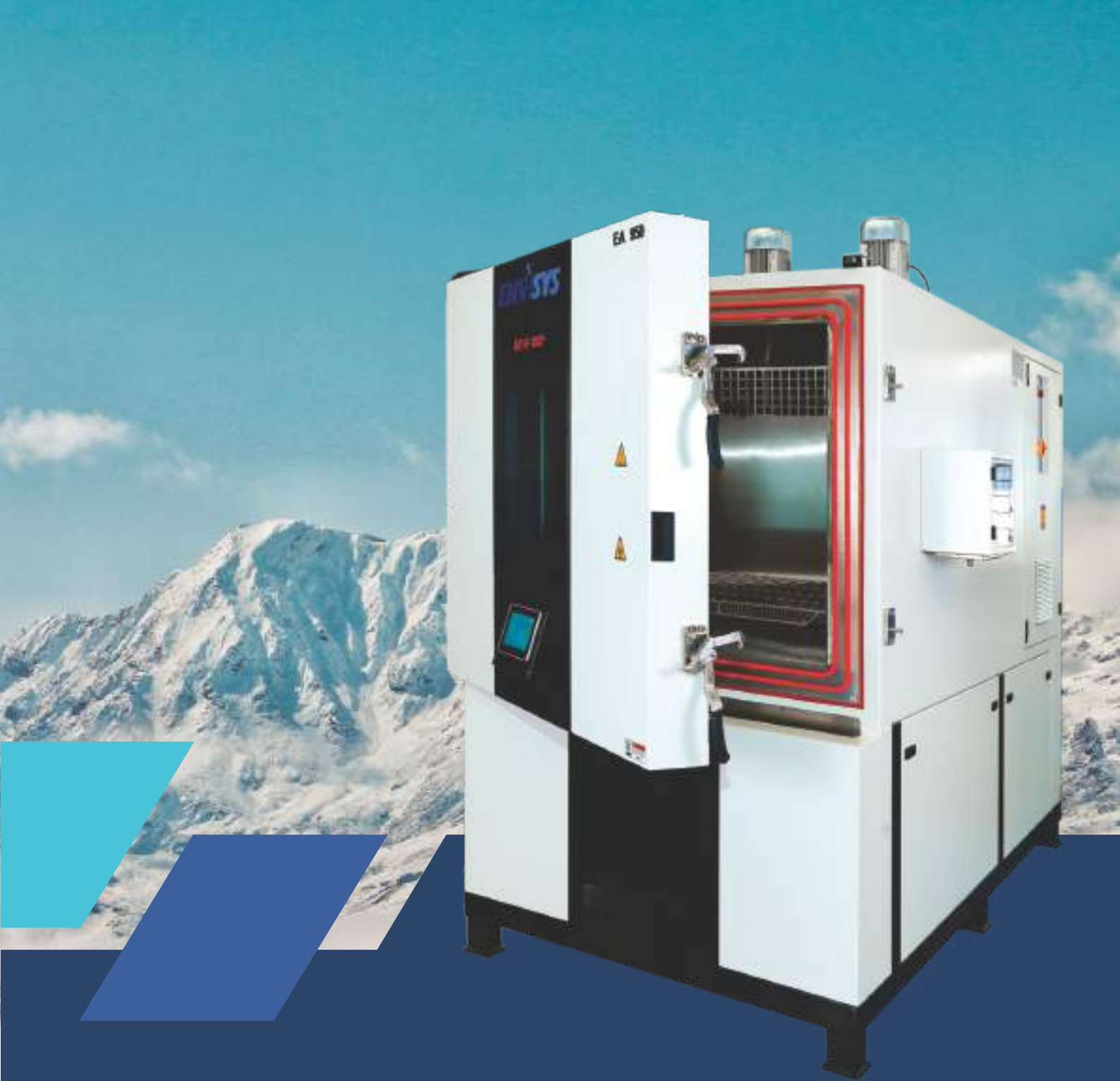
Dust Agitation - JIS



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:	Work-Space Dimensions
EA300 - 40T/70T 40H/70H	650X600X800 MM
EA600 - 40T/70T 40H/70H	800X850X900 MM
EA950 - 40T/70T 40H/70H	1000X1000X950 MM
EA1400 - 40T/70T 40H/70H	1100X1350X950 MM
Temp*	-40/-70°C to 180°C
RH	10% to 95% (optional)
Altitude	Up to 10 m bar

* The temperature ramp rates are optional varying from standard range of 3 °C to 20 °C per minute



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-Thru 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 using Scissor lift mechanism (Hydraulic power pack)

Chamber will be moved horizontally using heavy duty castor wheels with railing and ger motor

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

* The temperature ramp rates are optional varying from standard range of 3 °C to 20 °C per minute



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



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 an other for comparison



Freezing the Razor Blades...



Freezing the Automotive Components...

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

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.

Models Available: ETFS700W & ETFS1500W

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



Cooling Head



Rear End



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)

The Temperature Ramp Rates Are Optional Varying From Standard Range Of 3 °c To 20 °c Per Minute

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 UVresistant 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

SOLAR RADIATION CHAMBER



Solar simulation chambers are meticulously designed to accurately replicate temperature, climatic conditions (temperature with humidity), and global solar irradiation, both indoor and outdoor conditions. These chambers enable the replication of sunlight effects on various products and facilitate comprehensive testing of crucial parameters such as performance, insulation, noise, and resistance to physical and mechanical losses. By subjecting products to simulated sunlight exposures, it helps manufacturers evaluate the impact on material integrity, color fading, and overall product lifespan.

A GLANCE AT CUSTOM-BUILT TEST EQUIPMENT / PROJECTS EXECUTED BY ENVISYS



Dual Rack
Battery Test Chamber



E-Motor Test Chamber



Fogging Test Chamber



Hot Chamber



Railway Sleeper
Test Chamber



Speed Sensor
Testing Equipment



Splash Water
Test Equipment



Split Type Environmental
Chamber with side racks



Steering Boots
Endurance Testing



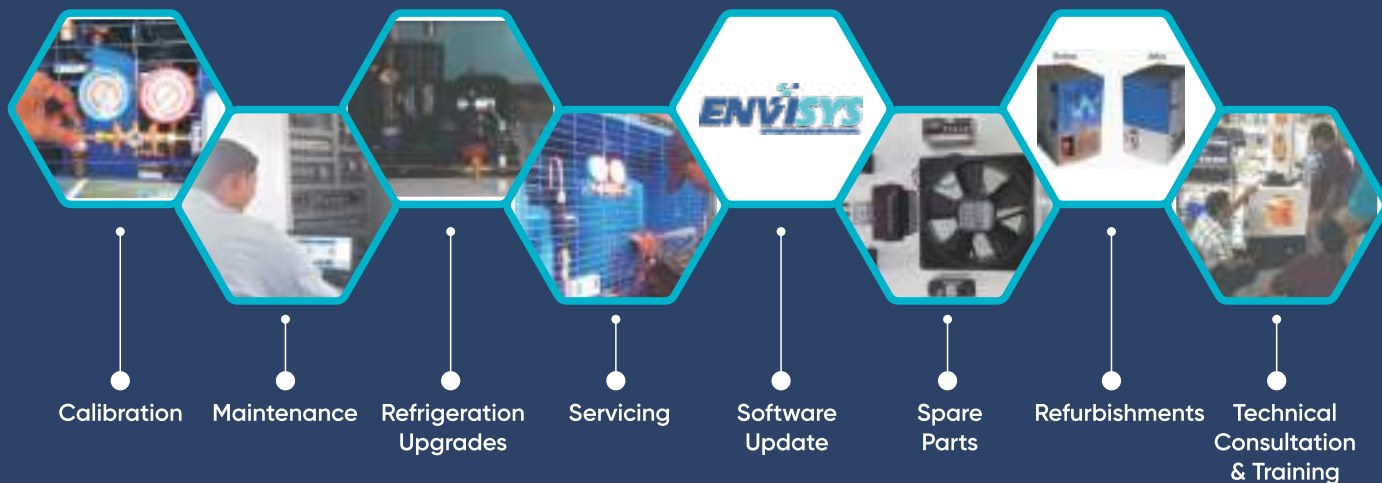
Thermo-Mechanical
Test Chamber for
Electrical Insulators Testing



Combined Vibration and
Climatic (CVC) Test System



Vaccum
De-gassing Chamber



Spectrum Of Services

Refurbishments



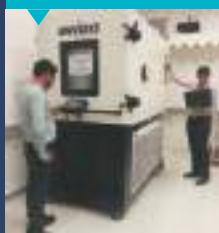
Envisys undertakes the refurbishment of old Environmental Test chambers/systems to refurbish as per latest technology to make them new for re-use.

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

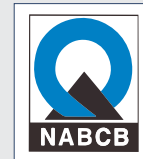


Training

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.



ISO 9001, 14001 & 45001 Certified Company



Contact us

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