ISO 9001 : 2015
CERTIFIED BY

SESS

SENSING A BETTER

WORLD

: www.sess.co.in

About us

Sri Easwari Scientific Solution Pvt Ltd a leading solutions based organization in Environmental test solutions, has been at the forefront of cutting edge technology ever since its inception from the Year 2006. We are into Manufacturing, Trading, Warranty and Service activity. Over the years we have acquired expertise by closely working with customers and specialized in many Areas. But, above all it's because of our deep commitment to our core values and principles which are more focused towards customer centric makes us stand out. Our competencies are spread across a wide range of Processes and verticals.

SESS is formally established in 2010 for the purpose of servicing environmental test chambers. SESS has become an industry best in the design, manufacture, and modification of environmental test chambers for temperature. humidity, vibration, altitude. thermal shock. portable shock chambers. burn-in chambers, custom equipment, fluid chillers, Dust chambers. automotive test systems. Drive-in chambers. conditioned rooms. and forced air ovens.

SESS has over 6 years of experience in the manufacture of environmental test chambers and employs 21 people in its company. For further information about SESS please visit our website www.sess.co.in.

Processes

Research & Development. Production, Inspection, Quality Assurance/Check. Testing, Simulation, Storage and Conditioning.

Competencies

Technical consulting, Pre-Sales & Post-Sales support, Manufacturing, Sourcing & Supply of standard of customized suitable solution, Annual Maintenance, Up-Gradation/ Refurbishment and Calibration services.

Vision and Mission

To become a trusted solution provider in Environmental Test Solutions, adhering with our core values and Principles focused towards customer satisfaction.

Our Team

Top Management

Our Elite team consists of members with many years of experience, who started more as field engineers and elevated to different positions in various reputed organizations associated with the clients scattered to various segments, thus acquired diversified and specialized knowledge in the environmental test solutions, processes, customization of design, manufacturing and organizational administration. It's also because of their closeness and willingness even today to reach with the actual end engineers/technicians who uses the environmental test solutions. Our Organization has planted our core values and missions focused more on customer satisfaction on the product Quality and user friendliness up to our roots.

Pre-Sales Team

Consists of members with over 10 years of experience in different positions at various industry domains, thus Acquired diversified exposure on multiple industry segments which helps our customers to get the suitable. Effective and economic test solutions for their application in accordance with the current and future industry Advancements instead of just having a black box sale.

Post-Sales Team

It's our pride to say that we have one of the finest. experienced, knowledgeable. more energetic and responsive Post-sales team always ready to extend their telephonic support as well as to travel with short notice. with only Motto of resolving the queries and difficulties faced by our customers 1f any, with the least MTTR. The team follows Periodic pre-cautionary and maintenance steps, thus facilitating our customers to plan for necessary corrections to reduce the sudden breakdowns. Because of these natures, we are proud to have more satisfactory customers in our industry segment.

SESS PRODUCTS find applications in many industries like:

- Automotive
- Aerospace
- Electronics
- Pharma
- Biology
- Hospital
- Medical Technology
- Thermally highly
- stressed rooms
- Materials
- Defence
- Research Lab
- Microbiologies
- Biotechnologies

Certifications

Our manufacturing facilities adhere to ISO 9001-2015 certification for Design, Manufacturing Installation/ commissioning and services of the Industrial and scientific equipment / Product

Certified By
TUV South Aisa

Our Clients

Lucas-TVS Ltd

Asahi India Glass Ltd.

IGARASHI MOTORS INDIA LTD.

HANON SYSTEMS

SEOYON E-HWA

Visteon

DELPHI-TVS Diesel Systems Limited

Mando

B/S/H/

MELSS

KELTRON

EXIDE

COMSTAR

UCAL FUEL SYSTEMS

KIML

Gates

ITC Limited

KEMIN

murugappa

HCL

Amrutanjan Pure Healthy Essence

archimedis

BPL

CURA Growth Innovation Reach

HYLAB PTE LTD

Josts

RAJALAKSHMI ENGINEERING COLLEGE

REMI

SHARDA MOTOR

rotork

Tagros Chemicals India Ltd.

THE RAMCO CEMENTS LIMITED RAMCO

Defence Clients

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VIKRAM SARABHAI SPACE CENTRE

HAL

BHEL

BrahMos

DRDO

Industrial Products

Range of products

Walk in Climatic test chamber for OBC (On Board Charger)/ DC-DC Converter

- Test Specimen qty 32 Nos
- Temperature range -30 to 180 °c
- Humidity Range : 10 to 98%

Hot Air Oven

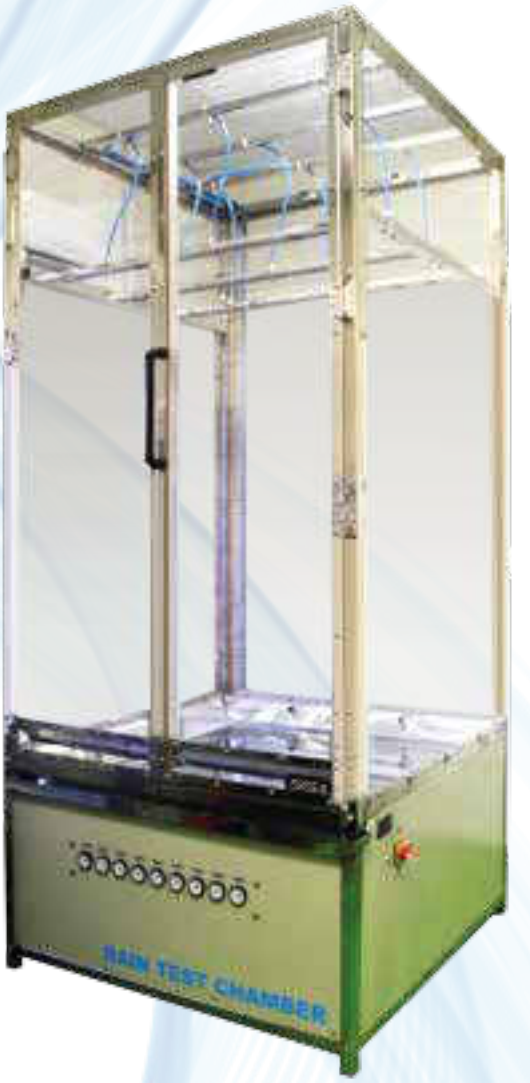
Climatic Chamber Mobile Charger Tester

Thermal Cyclic Chamber

Vibration Comined
Climatic Chamber

Dust Chamber

Salt Spray Test Chamber



Rain Test Chamber

Tumbling Barrel

Refrigerating & Heating Circulating Pump with Opening Water Bath

Bechtop Chamber

Tensile Test Chamber

Climatic Chambers

SESS is proud to announce their newest and most innovative Chambers featuring the new cutting edge control system based on SESS Climatic S/W, Which makes it possible to manage and monitor the chamber from the on board panel and desktop. This line of chambers comes in both Model ETC- climatic (temperature and humidity) And Model - TC Thermo-static (temperature only)

Feature

- Wi-Fi or Ethernet connection to the chamber
- Visualization and graphical analysis of recordings – S/W
- Min/max digital thermostat with independent probe
- Delayed start of a program
- Automatic notifications of event and alarms
- Possibility to send email notification
- Safety of Ambient temperature monitoring system
- Min/Maximum temperature based on safety door lock system - Electromagnetic door closing system
- Cycles as per requirement can be programmed directly from the HMI (Touch screen) PC Software

Chamber Model	Unit	TC/ETC 50 C	TC/ETC 100 C	TC/ETC 250 C	TC/ETC 550 C	TC/ETC 1000 C
Useful Internal capacity available	Litres	50	100	250	550	1000
Internal Dimension Approx in mm	Width x Depth x Height	400 x 300 x 500	500 x 400 x 600	600 x 600 x 750	850 x 7730 x 900	1000 x 1000 x 1000
Temperature range °C IEC 60068-3-5 and IEC 60068-3-6	TC ###	-35 to 180 °C	-35 to 180 °C	-35 to 180 °C	-35 to 180 °C	-35 to 180 °C
	ETC ### C	-70 to 180 °C	-70 to 180 °C	-70 to 180 °C	-70 to 180 °C	-70 to 180 °C
Control Accuracy (±°C)	(±°C)	0.1°C	0.1°C	0.1°C	0.1°C	0.1°C
Cooling Ramp Rate Average (Empty chamber)	°C/min	3°C	3°C	3°C	3°C	3°C
Heating Ramp Rate Average (Empty chamber)	°C/min	3°C	3°C	3°C	3°C	3°C
Humidty range %	%	20/95 %	20/95 %	20/95 %	20/95 %	20/95 %
R.H. Fluctuation	+/- %	+/- 3 %	+/- 3 %	+/- 3 %	+/- 3 %	+/- 3 %
Supply		230V +6/-10% / 50Hz / 1+G	415V +6/-10% / 50Hz / 1+G	415V +6/-10% / 50Hz / 1+G	415V +6/-10% / 50Hz / 1+G	415V +6/-10% / 50Hz / 1+G
Refrigerating gas		R404A/R23	R404A/R23	R404A/R23	R404A/R23	R404A/R23
Max. noise level with air condenser		78d8 (A)	78d8 (A)	78d8 (A)	78d8 (A)	78d8 (A)
Compressor		Hermetic	Semi Hermetic	Semi Hermetic	Semi Hermetic	Semi Hermetic
Control system based on customer request		Non Profile / Profile controller / PLC with HMI	Non Profile / Profile controller / PLC with HMI	Non Profile / Profile controller / PLC with HMI	Non Profile / Profile controller / PLC with HMI	Non Profile / Profile controller / PLC with HMI
Front Glass window		200mm x 300mm	200mm x 300mm	300mm x 500mm	300mm x 500mm	300mm x 600mm
Condenser		Air cooled /Water cooled	Air cooled /Water cooled	Air cooled /Water cooled	Air cooled /Water cooled	Air cooled /Water cooled

Optional Ramp rate 5,10, 15, 20°C

***All performances measured at Room temperature/ Ambient Temperature of +-25°C to +- 2°C**

***Test Space can be provided as per customer requirement**

***Appearance and design of chamber may vary depending on the internal dimensions**

Cyclic Corrosion Test chambers (CCT)

The corrosion test chambers are designed to be flexible enough to comply with as many different CCT specifications as possible. As standard they come with the ability to create 4 distinct climates: which may be programmed to occur in any sequence and be repeated automatically. By choosing from a wide range of optional accessories, these climates may be added to as required to further extend the number of climates and conditions that can be created.

Feature

- All the models are equipped with a PLC-based control system
- High-resolution dosing and high-precision spraying of the salt solution (atomization).
- Automatic stop of the running test in case of unintentional opening.
- Regulating-valve manometer for the control of compressed air flow.
- Flow meter for the reading of the salt solution flow.
- With or without cooling unit
- Easily inspectable stainless steel humidifier
- Magnetic switch for turning off the spraying when the hood is open

Ordering Information

Chamber Body Material	Model	Internal size (MM)				Pow	Voltage	Optional Refrigeration System
		W	D	H	H*	KW	V/HZ**	
FRP	SST 200	700	600	500	750	3.5	230/50/1+G	
FRP	SST 600	900	640	810	1100	4.5	230/50/1+G	Yes
FRP	SST 1200	1700	640	810	1100	5.5	230/50/1+G	Yes
Inner FRP / Outer SS316	SST 2300	2000	1000	1000	1300	7.5	415/50/3/N+G	Yes

Standards

Salt Spray Test:

IS 9000, IS5528, IS 6910, ASTM B 117, JIS2371, UNICHEM, DIN ISO 9227 6270
Condensed water test as per ISO 6270, **CASS Test**, ASTM B 368

Corrosion Test:

PV 1210, VDA 621-415, SAE J 2334, NES CCT – I/II/IV, Renault D17: 2008 ECC1, GMW 14872

*Test Space can be provided as per customer requirement
*Appearance and design of chamber may vary depending on the internal dimensions

Dust Chambers

SESS Technologies - Sand and Dust Test Chamber provide an environment to test the exposure of automotive and electronic components to concentrated levels of dust. These chambers are utilized in several industries and applications such as for Military & Defense, Automotive, Computer Systems, Optics and Displays, Material, Coatings, Solar Energy, etc. Moreover our equipment is supplied with fully programmable control systems to ensure the perfect test environment. They are also fitted with full measurement systems to measure the sand & dust fallout rates, as well as the air-flow rate. The Chamber also known as Sand Test Chamber and Dust Test Chamber

Specification	Dust Chambers	
	DUST-450	DUST-1000
Work Space Volume (L) (MM)	450	1000
Test space Dimensions (WXDXH) (mm)	750mmX750mmX750mm	1000mmX1000mmX1000mm
Temperature Range (°C)	5°C above ambient to +80 °C	
Temperature Fluctuation	±1°C	
Electrical Supply	3ø/N/E 415VAC ±10% 50Hz	
Type of controller	PLC based control system	

Standards

Conform IS 9000, JSS 55555,IS 12063 I IEC 60529(IP),
JIS D 0207 (C&F)

ISO 9000 / JSS 55555

Dust agitator mechanism as per I S 9000 / JSS 55555 designed to give 25grams ± 5grams in 5 minutes.
Dust measuring device conforming to JSS 55555.

ISO 12063 / IEC 60529(IP)

JI S D 0207.

Circulating dust test 'C'
High pressure blower to generate velocities of 5 m/s and 10 m/s.

Floating Dust Test (F)

Dust suspension using pneumatic nozzles with timer.

*Test Space can be provided as per customer requirement
*Appearance and design of chamber may vary depending on the internal dimensions

Hot Chambers / Ovens

SESS Forced Convection Oven is ideally suitable for any laboratory application requiring a controlled temperature environment up to 200°C.

SESS Advantages:

- Optional PLC/PID controller with HMI models available
- Control system programmer Make Omron/Atonics controller with TFT Touch screen based (HMI) with Ethernet facility.
- Wi-Fi or Ethernet connection to the chamber
  Visualization and graphical analysis of measures and recordings – S/W
- Min/Maximum temperature based on safety door lock system - Electromagnetic door closing system
- Min/max digital thermostat with independent probe Internal lights
- Silicone gaskets and portholes
- Unlimited measures recording possibilities – S/w
- Program and Manual chamber operation modes
- Glass window in-built into the door.
- Forced convection design ensures a high level of control accuracy and uniformity.
- Automatic cut off of heater & blower when door opened.
- Digital PID temperature controller with timer, alarms and auto tuning.
- Non contact type door switch.
- Aero dynamic internal design for achieving horizontal air circulation.
- Solid and plain bottom without electrical.
- Supplied with stainless steel wire mesh shelves. Shelf height adjustable in 25mm steps.
- Temp range: +50°C to 200°C.
- Control accuracy: ±0.2°C.

Specification	Hot Chambers / Ovens		
	HAO-100	HAO-150	HAO-250
Test space Dimentions (WXDXH) (mm)	450mmx 450mm x 600mm	500mmx 500mm x 650mm	600mmx 600mm x 750mm
Test space Volume (L)	100	150	250
Temperature Range (°C)	above ambient +40°C to +200°C	above ambient +40°C to +200°C	above ambient +40°C to +200°C
Temperature Fluctuation (°C)	±1		
Electrical Supply	1ø/N/E 230VAC ±10% 50Hz		
Type of controller	Option PC based software for Data Logging		

Options: Tray Driers, Water Jacketed Ovens, Conveyor Ovens Available On Request

*500 and 1000 litter also available

*Test Space can be provided as per customer requirement

*Appearance and design of chamber may vary depending on the internal dimensions

Rain Test Chamber

Rain Spray Test Chamber is used to test anti-rain and waterproof performance for products, the products such as steam locomotive lamps, wiper performance, waterproof bands, motorcycle instruments, defense industry, navigation systems, missiles, radar cone top, aerospace industry.

Standards / Performace

Conform to JS9000, JSS55555, JIS D 0203, S 12063,
I EC 60529 (IP) , DIN 40050 IP 1 TO 9k & I SO 120653 I P 1 TO 9k

I s 9000 / Jss 55555

Rain spray nozzles as per IS9000 I JSS 55555. Total 8 nozzles, four nozzles at the top four corners inclined at 45 degree and 4 nozzles in the center of each four sides . Pressure Gauges for each nozzle. Rotameter to monitor rate, Rotating Table.

Is 12063 / IEC 605239 (IP)

Oscillating pipe formed in to a semi-circle with nozzles as per IP. Rotating Table with T slots.

JISD0203

Rotating nozzle a nd Rotating table as per JIS D 0203
Drip Test, Jet Test & Immersion Test as per IEC 60529(IP) IP 4K/6K/9K also available on request

*Test Space can be provided as per customer requirement
*Appearance and design of chamber may vary depending on the internal dimensions

Vibration Combined Climatic Chamber

Our Vibration Test Chambers are specifically designed to interface with all electrodynamics vibration generators in the Z axis (vertical) or the X and Y axis (horizontal) with a slip table. The chamber are multi-purpose, fulfilling user needs of R & D testing and at the same time, being highly suitable for combined environment testing as part of a stress screening or ESS program.

Feature

- Control system - Dual Loop Microprocessor programmer Make Watlow - USA / Siemens PLC (Programmable Logic Controller), Touch screen based HMI with Ethernet facility.
- Visualization and graphical analysis of measures and recordings – S/W
- Wi-Fi or Ethernet connection to the chamber
- Min/Maximum temperature based on safety door lock system - Electromagnetic door closing system
- Easy operation

  A screw type of lifting system, managed through the touch screen (HMI) control panel, allows adapting the test chamber cabinet to the shaker height. It is also possible to add horizontal Movement on request. This is especially valuable if your shaker allows both vertical and horizontal movement or if you want to use more shakers with the same chamber.
- Flexibility

  Different removable bottom closing cover, for vertical and horizontal vibrations, can adapt the test chamber to any existing standard shakers. If there is the need to use the test chamber without the shaker in place, a blind bottom cover floor is available. The test chamber cabinet movement is managed by the detachable control panel located on the right side of the chamber.

Specification	Vibration Combined Climatic Chamber			
	Vibro-ETC 400 Vibro-ETC 400C	Vibro-ETC 600 Vibro-ETC 600C	Vibro-ETC 1200 Vibro-ETC 1200C	Vibro-ETC 2200 Vibro-ETC 2200C
Useful area capacity (l)	400	600	1200	2200
Internal dimensions approx. (mm) WIDTH x DEPTH x HEIGHT	700 x 700 x 800	850 x 750 x 950	1000 x 1150 x 1080	1350 x 1350 x 1200
Distance between the bottom of the test space and the floor (mm)	650....1400	650....1400	700....1400	700....1400
Temperature Range (°C) TC _ _ _ _ ETC _ _ _ _ C fluctuation	 -40 to 180°C -70 to 180°C ±1...±1.5	 -40 to 180°C -70 to 180°C ±1...±1.5	 -40 to 180°C -70 to 180°C ±1...±1.5	 -40 to 180°C -70 to 180°C ±1...±1.5
Temp. changing rate Heating	5	5	5	5
Temp. changing rate Cooling	5	5	5	5
Humidity range (%) (t= 25/+80°C) fluctuation	10 to 98% ±3...±5	10 to 98% ±3...±5	10 to 98% ±3...±5	10 to 98% ±3...±5
Temp. range for climatic test corrector	20 to 85°C	20 to 85°C	20 to 85°C	20 to 85°C
Supply voltage (Vac)	410V ±10%/50Hz/3 + N + G			

*Test Space can be provided as per customer requirement

*Appearance and design of chamber may vary depending on the internal dimensions

Thermal Shock Test Chamber

SESS Thermal Shock Chamber is an effective tool in subjecting products to a thermal shock test. Thermal Shock Environmental Chambers have a product carrier basket that automatically transports a product under test between separately controlled temperature zones. With built-in viewing windows, users can easily observe the product as it's transferred between different temperature zones. Thermal Shock Chambers come in a variety of performance configurations to meet specific testing needs and includes the SESS digs PLC Controller

Specification	Thermal Shock Test Chamber		
	TS 25L-B2	TS 64L-B2	TS 120L-B2
Test Basket Zone (W x D x H) in mm	250 x 250 x 400	400 x 400 x 450	500 x 500 x 400
Test Space Dimension (W XD X H) in mm	400 x 400 x 450	550 x 550 x 450	700 x 700 x 450
External Dimension (W x D x H) in mm	900 x 1860 x 2450	1200 x 2150 x 2450	1350 x 2300 x 2450
Hot Zone (°C)	50 to 200	50 to 200	50 to 200
Cold Zone (°C)	-70 to 40	-70 to 40	-70 to 40
Basket Transition Time (Sec)	< 10	< 10	< 10
Recovery Time (Min)	< 5....15	< 5....15	< 5....15
Basket Movement	Vertical	Vertical	Vertical
Type of Controller	Watlow / Siemens PLC/ HMI - SESS Climatic	Watlow / Siemens PLC/ HMI - SESS Climatic	Watlow / Siemens PLC/ HMI - SESS Climatic

Electrical Connection 415VAC ±10% / 3P / N / G / 50Hz

Refrigerating & Heating Circulating Pump with Opening Water Bath....

Refrigerating & heating circulating thermostatic pump with opening water bath is mainly used for the experiments below room temperature requirements, and comes with a refrigeration compressor and circulating pump, refrigeration heat integration products, also known as low-temperature water bath. Constant temperature circulating water bath, used microprocessor technology combined with PID control which is a high-precision and multi-function products. It built-in water tank can be made the experiment internal, or provide cooling water for external instruments.

Feature

- Upright or chest design to suitable for various environments
- Large operation opening in order to provide tank experiment
- External circulation function with kinds of interface port
- Temperature range from -10, -20,-40, -60 and -70°C
- Precision temperature control at 0.1°C or 0.01°C
- A variety of safety protection include over-temperature, over-water level, sensor circuit open/short
- Auto water supply is optional
- RS485 interface is optional
- HMI Touch Screen for data logging through HMI

Tensile Test Chamber

SESS Hot and Cold test Chambers have high degree 350 °c of to -80 °C flexibility for customisation. The latest addition to this range is the "Climatic Chamber with UTM Integration" which is a combination of the UTM machine & the Hot and cold test Chamber. This integration not only offers opportunities to conduct wide range of material strength testing but also under varying environmental condition.

Bechtop Chamber

The Bench top Climatic Chamber is ideal for conducting reliability testing on the specimen, which is smaller and light in weight. It is widely popular in the electronics and electrical industry where Manufacture is the norm of the industry and to test their reliability is crucial for a successful product launch.

Polished stainless steel with a load bearing capacity of 5 Kg- 10 Kg. The presence of the non-conducting silicon entry port (offer accessibility for electrical connection) helps to conduct real – time live testing. Equipped with a touch screen controller (SESS climatic software Series) the bench top chamber provides a unified testing experience like the climatic chamber.

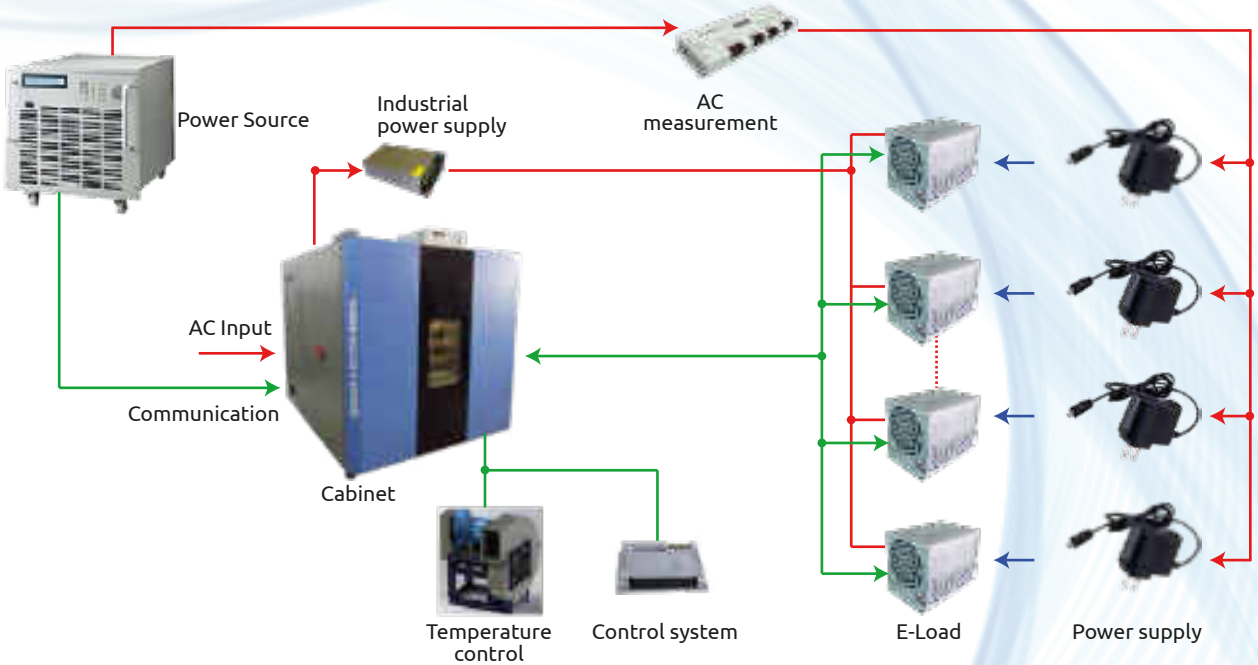
The chamber is available in Below models namely the 25, 50, 80 and 100 litres with a temperature range of -60 °c to 180 °c & -30 °c to 150 °c respectively

Climatic Chamber
Mobile Charger Tester

Brand Name:	SESS
Model Number:	ETC – 1000 / -40 °c to 150 °c / RH 10 to 98%
Electronic load bank:	CEPT Electronic
Usage:	Mobile Charger power supply aging test chamber
Product name:	Mobile Charger power supply aging test chamber
Temperature range:	-40°C to 150°C
Humidity Range:	10 to 98%
Load precision:	±(1%+0.1%FS)
Load mode:	CC/CV
Power of single channel:	40W / CH
Channel number:	110
Power Load:	80 VAC to 300 VAC Chroma AC power source / 400 volt test with Transformer
Control:	Computer-monitoring with Data analysis

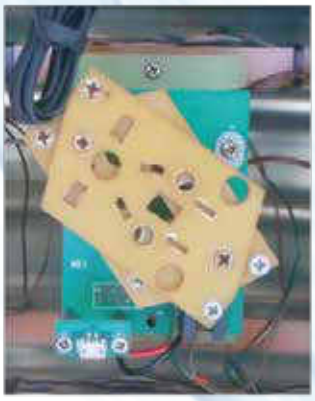
Feature

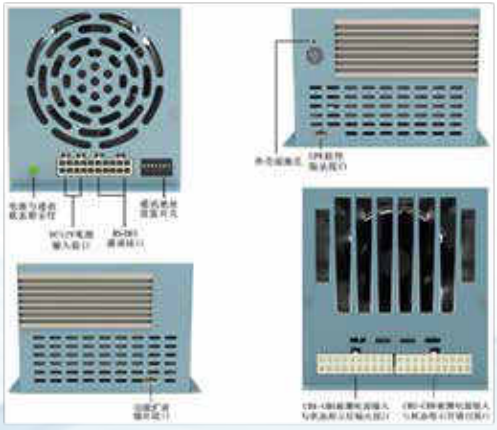
- Set various load parameters and real-time monitor for parameters such as voltage, current and power by PLC with PC software
- Be of CC and CV load modes
- Support parallel channel connection under CC load mode and meet the requirements for power extension of products
- Be of built-in over-temperature alarming automatic protection device
- Be of editable switch sequence and load conversion function
- Cooperate with monitoring software of power burn-in, for application
- Interface of multiple DC adapter plates can meet the demands for different output interface products
- Be of optional multiple laminate structures at products zone and meet the requirements for more convenient operation of different products
- Be of AC parameters measurement module and testing power input characteristics (optional)
- Be of automatic voltage switching function (optional)
- Be of temperature monitoring function at products zone (optional)
- The model of E-load model can be selected



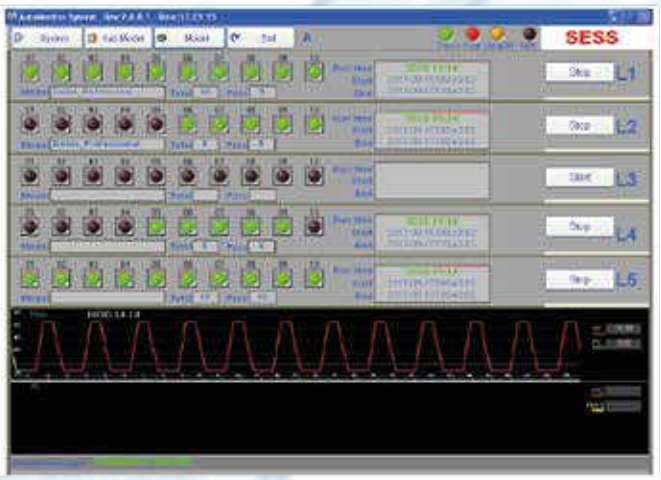
Universal Power Socket

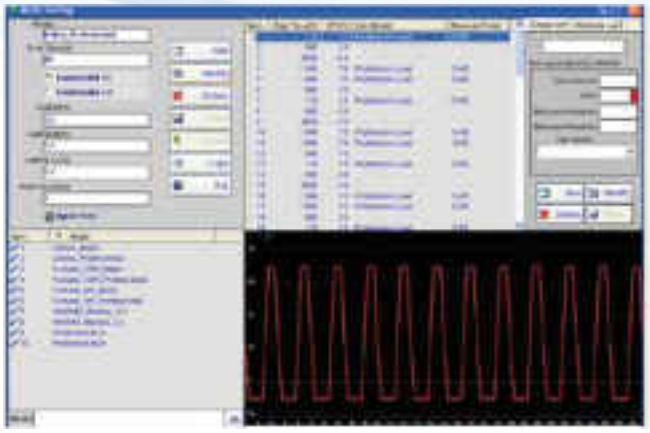
Electronic Load Bank





PC Software





Specification	Climatic Chamber Mobile Charge Tester
	ETC 1000 / -40 to 150 °c
Power of single channel	50W/CH
Quantity of load channels	110CH
Scope of load voltage	2-100V
Scope of load current	0.2-5A/CH
Load precision	±(1%+0.1%FS)
Qty of Layer	Six - Layer
Height (mm)	1300
Width (mm)	1300
Load Model	Energy Saving
Load mode	Constant voltage load mode + constant current load mode, CC+CV Mode
Control system	Temperature / Humidity control type of PLC with PC software
Temperature range	Temperature -40°C to 150°C
Humidity Range	10 to 98%
Charger power socket	Universal type Power socket
Structure material of trolley	Outer MS with Powder coated / Inner SS304
Mode of main control	Monitoring software for burn-in of computer-monitoring type power
Input mode of UUT	Multi-purpose socket/speaker wire clip/custom design
Interface mode of UUT	Connecting fixture boards (with various specifications) for first choice/custom design
External dimension (L*W*H)	1540 x 1668 x 1940

Medical Products

Blood Storage Cabinet / Blood Bank Refrigerator

BLOOD BANK REFRIGERATORS are designed and manufactured by SESS Pvt ltd at par with international standards with the help of eminent technical expertise. This equipment is superior in temperature accuracy, better construction of panels for maximum uniformity of temperature to meet strict requirements for storage of whole blood.

Incubators

Electric heating incubator is used in universities, biotechnology, agriculture, scientific research departments for storage of bacteria, biological training, scientific research necessary equipment.

Feature

- LED microprocessor temperature controller with timer function which is stable and reliable.
- Double doors, motor control switch, when the inner glass door open, the breeze circulation heating automatically stops.
- Mirror stainless steel, electric film heating, heating in high speed and no overshoot.
- With a separate limit temperature alarm system, exceeds the limit temperature is automatically interrupted, ensures experiments run safely without accidents. (Optional)

BOD Incubator

BOD Incubator. BOD Incubator (Bio-Oxygen Demand) are used to maintain temperature for test tissue culture growth, storage of bacterial cultures and incubation where high degree of constant temperature accuracy is required. SESS BOD Incubators provide with accurate conditions and uniformity throughout the chamber.

Plasma Freezer

Manage demanding blood bank applications with microprocessor-controlled SESS Plasma Freezers, designed for simplified operation and greater accuracy. These –30°C freezers meet AABB, ANRC and FDA standards for safety and performance in plasma storage. Few models offer cabinet sizes to meet a variety of space needs and storage volume requirements.

100, 170, 270,325,395, 500 Litter ....

ULTRA LOW DEEP FREEZERS (-86°)

SESS new range of ultra-low deep freezer is specially designed for faster temperature pull down & optimized cryopreservation. Highly sensitive microprocessor control ensures precise temperature management at -86°C

Plasma Thawing Bath

Micro controller based Plasma Thawing bath is a SESS Model, for quick thawing of plasma at 37°C. Temperature is controlled by micro controller based temperature controller.

Dry Hot Air Oven

SESS Dry hot air oven DHAO series are specially designed to achieve extreme dryness by evaporating all moisture contents from the biomass or other material. Microprocessor control helps in achieving precise high temperature with forced convection. Suitable for varied applications in laboratories and scientific research institutions.

Specification	Dry Hot Air Oven	
	DHAO-50	DHAO-80
Chamber volume (Litres)	50	80
Internal Dimensions (WXDXH) (mm)	420mmX395mmX350mm	450mmX400mmX450mm
Internal Dimensions (WXDXH) (mm)	720mmX590mmX520mm	740mmX618mmX630mm
Temperature Range (°C)	RT +10°-300°C	
Temperature accuracy	1°C	
Display resolution	±1°C	
Timing range	1~9999min	
Shelves (Nos)	2	
Power consumption	1100W	1550W
Electrical requirements	220V, 50Hz, Single phase	

Platelet Agitator Incubator

This product is suitable for the hospital transfusion, health and epidemic prevention and blood station is the special thermostat equipment for platelet preservation.

Specification	Platelet Agitator Incubator		
	SESS/PI-0	SESS/PI-2	SESS/PI-3
Temperature Range (°C)	15-35°C		
Temperature accuracy	±0.1		
Timer (min)	0-999		
Variation (%)	±0.5		
Power (KW)	0.5	0.8	1.35
Interior Dimensions (HxWxD) (mm)	530X390X390	1050X670X600	390X480X300
Overall (HxWxD) (mm)	820X590X390	1500X670X600	680X480X300
Tray size (HxWxD)	950X1090X390	1750X1170X600	390X480X300
Net Weight (KG)	110	180	320

Pharma Products

Stability test Chambers / Humidity test chamber

Stability Chambers are designed as per ICH Guidelines for precise monitoring of temperature and humidity conditions required for long term, intermediate & accelerated stability studies at chemical, pharmaceutical, agrochemical manufacturing facilities. These chambers are manufactured to comply with GMP requirements.

Specification	Stability test Chambers / Humidity test chamber			
	ETC-275	ETC-480	ETC-800	ETC-1200
Effective capacity L	275	480	800	1200
Temperature range@20°C	+5~+65	+5~+65	+5~+65	+5~+65
Temperature stability±°C	0.1~0.2	0.1~0.2	0.1~0.2	0.1~0.2
Temperature deviation °C	1.0	1.0	1.0	1.0
Humidity range(std)opt)	40~95%RH	40~95%RH	40~95%RH	40~95%RH
Humidity range(opt) %RH	20~95	20~95	20~95	20~95
Humidity stability ±%RH	1-2	1-2	1-2	1-2
Humidity deviation %RH	3-5	3-5	3-5	3-5
Heater wattage W	450	450	950	950
Cooling capacity@20°C W	250	350	500	800
Interior size(WDH) mm	535×480×950	635×560×1350	935×640×1350	1235×720×1350
Overall size(WDH)mm	640×660×1600	740×740×1972	1040×820×1972	1340×900×1972
Air movement	Horizontal	Horizontal	Horizontal	Horizontal
Shelves (standard/maximum)	2/5	3/7	3/7	3/7

Autoclave

The SESS FA series, fully automatic autoclaves are offered with unique single lever lock for lid. FA series autoclaves are offered in 5 different sizes from 35 to 180 liters. These Fully Automatic Autoclaves have customized PLC based control system which ensure required sterilization accuracy, repeatability & safety.

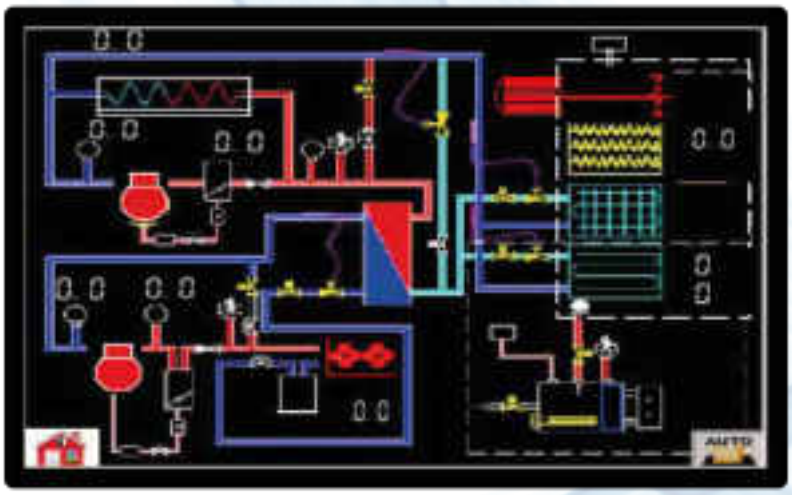
Applications

The FA series Autoclaves are suitable for a wide range of applications wherein fast and assured sterilisation is required. Ideal for Pharma QC, QA, Micro, R&D, Chemical Plants, Bio-Labs, Water & Air Pollution Labs, Fisheries, Mineral Water Plants, Food, Beverage & Distilleries, Flight Kitchens, Mass Kitchens, Five Star Hotels, Hospitals, Nursing Homes & Specialty Doctors.

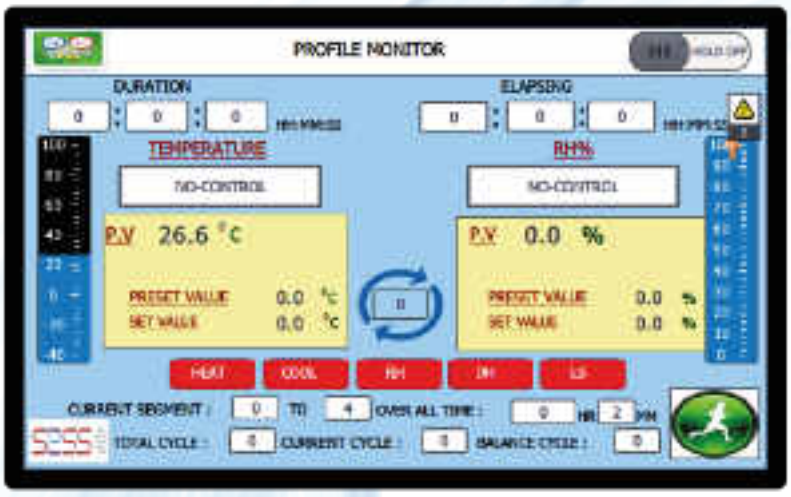
Sess Advantages

- ISO9001-2015 Certified company
- Unique single lever lock for lid with single hand opening.
- Microprocessor Based Control ensures repeatability & a high accuracy.
- Conformance to National & International Standards.
- Low water detection.
- Spring loaded safety valve for over pressure.
- Pressure interlock on door.

Proface HMI 5.7” / Wintek HMI 7” Faster Control, TFT, 65,536 colors, Ethernet I/F, USB, Memory support for storing cycle / Data logging



Refrigeration system monitoring Refrigerant Pressure Monitor Condensing in let temperature



Cycles as per requirement can be programmed directly from the touch screen New Profile making / editing Save profile up to 20 in HMI

Customer Support

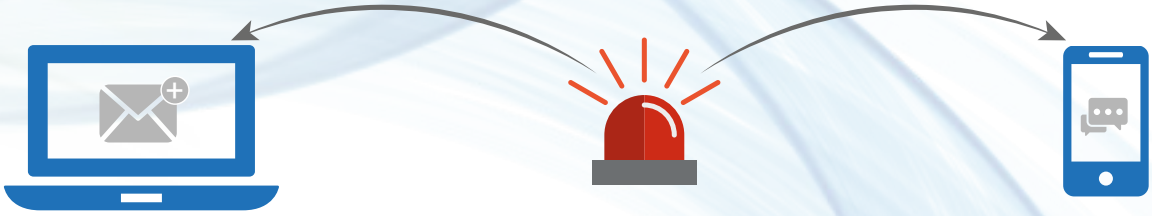
SESS offers quick and proactive support for our products across the globe. Various technological integrations in our products have made it possible for us to now even offer proactive supports, wherein our support engineer's contact you with solutions for a potential future snag! This has further increased our product's reliability and performance.

1 Chamber Analytic

Analyse data from controller such as
Power Consumption, Chamber Usage, Regrigeration System, Compressor Health

2 Trigger Alarm

If there is any risk of potential failure from the analysed data then SESS is notified



3 Initiate Proactive Support

As we get notified of the potential failure, the support process is initiated.
Self Dioagnostics, Online Support & On-site Support.

SESS

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