



ELS Instruments



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Our Products

1. Plant Tissue Culture

2. Germination Chamber

3. Lab Furniture

4. Consultancy

**5. General Laboratory
Instruments**

Air Pressure Model



The lightweight, durable and highly efficient Air Pressure Modules offered by us can easily be mounted on ceilings and rooftops. Fabricated using graded raw materials and advance technology; they are functional in industries for protecting the clean rooms and sterilized equipment's from contamination. Get them from us in custom specifications.

Additional Information:

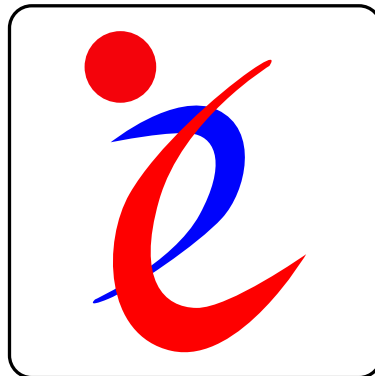
filter having efficiency rating as high as 99.997% with hot, DOP, thus retaining all air-borne particles of size: 0.3 micron and larger. This provides continuous supply of clean air into the room and allows the room to be in positive pressure.

The blower and motor assembly are statically and dynamically balanced. Blowers are spring mounted to minimize vibration. One No. GE double shaft motor 1400 RPM fitted with 8" aluminium blower assembly.

- To work on 240V AC 50 Hz does the main function of suction and delivery.
- **Size:** 710 x 1200 x710mm
- **Room duct size:** 310x310x310 mm

Product Specification:

HEPA Efficiency	99.997% at 0.3 microns with DOP test
Pre-filter	Washable with an arrestance up to 90% at 5 microns
Air Velocity	90FPM +-20%
Sound Level	60-65 decibels
Cleanliness	Class 100



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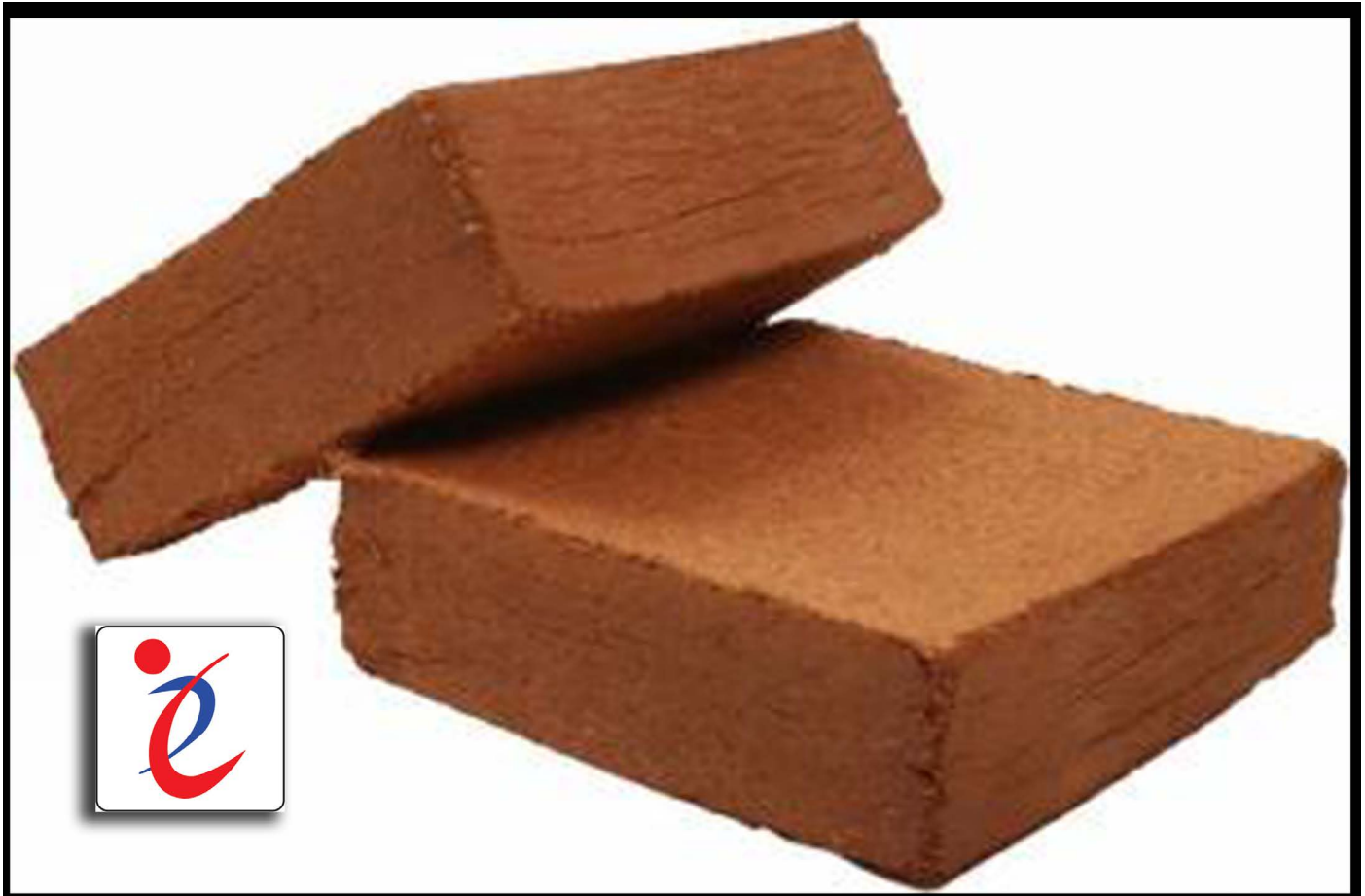
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Cocopeat



Based in Karnataka, India we are engaged in supplying of Coco Peat that is excellent medium for nurturing hydroponics, soil mixes, and container plant growing. We delight our customers by providing reasonable priced purely organic Coco Peat that has abundance of nature rooting hormones and anti-fungal properties. Also, we use high grade packaging to protect it from contamination and longer it shelves life.

Product Specification

- Cocopeat -Low EC - washed.
- Size: 30 x 30 x 12/13 cm
- Weight: 4.5 to 5 kg per bale approx.
- Volume: 65/70 liters. per bale after reconstitution
- Moisture Content: 15 to 20 %
- Organic Matter: 85 to 90 %
- Water Holding Capacity: More than 800 %
- pH: 5.2 to 6.8
- E.C.: Less than 1 m/mhos
- Fiber Content: 10 %
- Packing: Packed In Once Used HDPE Bags

Lab Trolley



Stainless Steel Lab Trolley

Product Specification

Load Capacity	50-100 kg
Cart Size	3ft x 2ft x 3ft
Application	Laboratory material handling
Material	SS 304
Wheel	Rubberized castor wheel
Minimum Order Quantity	1 No

Applications :

- Hold Tissue Culture Bottle Trays
- Hold Various other lab Consumables Rubberized or Poly wheels for easy movements

Pass Box



Owing to our rich industry experience, we have been able to offer Stainless Steel Pass Box. Offered boxes are available in various specifications as per the needs of our customers. Our professionals manufactured these boxes by using quality approved material and latest techniques. These boxes are used to minimize traffic and contamination entry into the clean room.

Product Specification

Sizes	2" x 18" x 18" / as per need
Material	SS 304
Power supply	50Hz
Voltage	230 V
Phase	Single phase

Features:

- Unique design
- Swing type doors with view panels
- High strength

Poly House



Over a decade, we are engaged in fabricating an array of well-ventilated and climate-controlled Poly Houses that come in variable price range to fulfil the clients' needs. Prefabricated structures and efficient control systems.

Product Specification

Material	G.I tubular, LDPE UV stablished / Multi wall Polycarbonate
Feature	Easily Assembled,
Built Type	Prefab
Area	Minimum 1200 square meter
shade net	Green 50% for protection of poly sheet
Application	Horticulture/ Nursery etc

Size :

Any Size

Technical Specifications-

Particulars	Details
Centre height	5m
Slope of gutter	1% to 1.5%
Design	Forced vent top and side closed
Civil foundation	Telescopic insertion
Structure	Entire structure is made of GI tubes
Fixing	In bolted form and joints through GI/MS clamps and bracket
Poly fixtures	UV stabilized LDPE white film
Ventilation	Through fan and pad only
Door	Aluminium frame with poly carbonate and alu. Panel with door closure
Auto panel	Fitted with temperature and humidity control digital with auto run system
Fogging system	4-way floggers with anti-lockage with weight discharge 7 lit/ min
PVC pipeline	6kg/cm PVC pipeline size as required
Water filter	Imported disc filter
Cooling fans	Size 50"-
/.Cooling pads	Size - 5'x2'x4"
Pad frame	GI/ Au
Shed net	50% green / white for inside, 35%for top over UV sheet

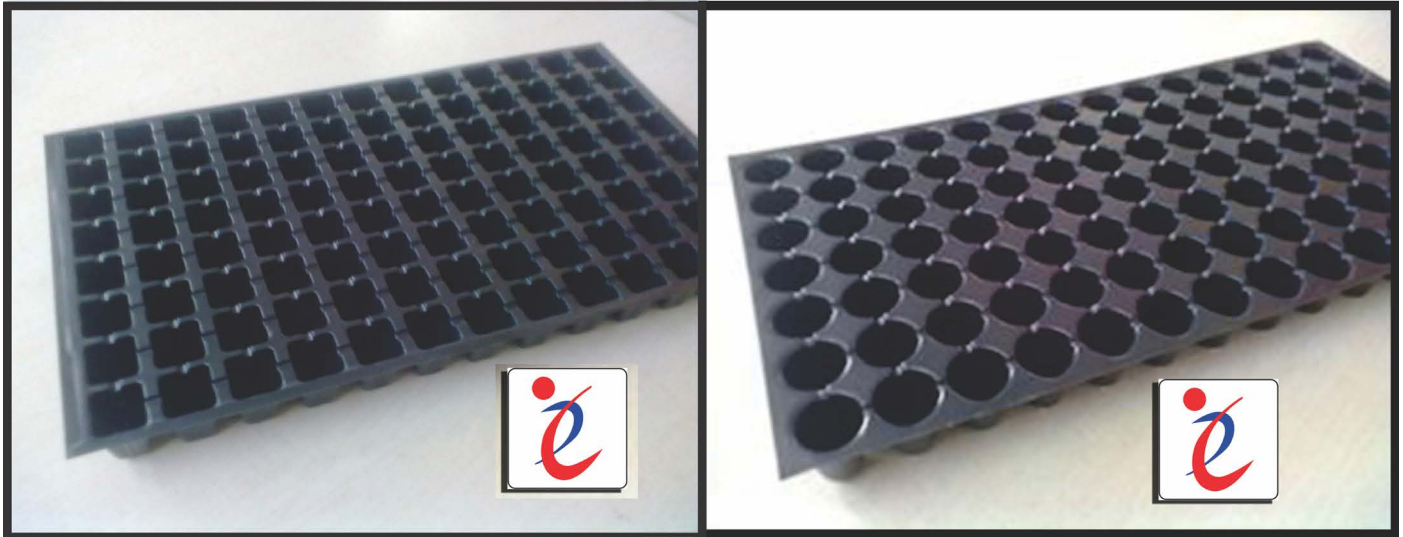


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Sheed Ling Tray



Description	Tray Size	Cavity	Cavity	Cavity	Media
	in mm	top dia	Bot. Dia	depth	reqd.
98 Cavity	265 x 520	33mm	22mm	38mm	1.5Kgs.
Net pot for 98Cavity	33mm	22mm	38mm		
50 Cavity	265 x 520	50mm	32mm	45mm	1.5Kgs.
Net pot for 50Cavity	50mm	32mm	45mm		
38 Cavity (BIG)	280 x 485	60mm	35mm	114mm	4.0Kgs.
38Cavity (SMALL)	280 x 485	55mm	43mm	71mm	2.5Kgs.
70 Cavity	358 x 556	48mm	35mm	56mm	2.5Kgs.
221 Cavity	355 x 464	22mm	5mm	45mm	1.25Kgs.
18 Cavity	275 x 535	75mm	50mm	90mm	4.00Kgs.
88 Cavity	450 x 320	32mm	10mm	57mm	1.50Kgs.
36Cavity	265x 520	50mm	48mm	53mm	2.0kgs
105cavity (square)	540 x 280	36mm	14mm	40mm	1.50Kgs.

Shade House



Product Specification

Size of Shade house: 10 Sq.mtr & above.

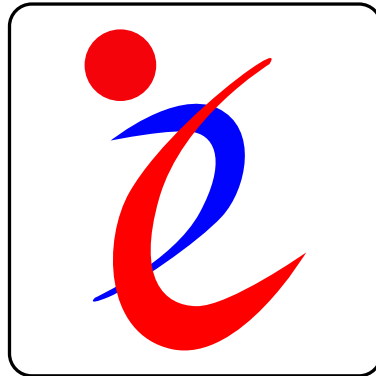
Anteroom: 5mx4m=20m sq.

Technical specifications:

Particulars	Details
Centre height	3m
ventilation	Through shed net
Design	Flat roof
Civil foundation	Telescopic insertion
Structure	Entire structure is made of GI tubes
Fixing	In bolted form and joints through GI/MS clamps and bracket
profile	Grippers and spring for fixing shed net
Shed net	50% or 75% green shed net
Door	GI construction
PVC pipe line	6kg/cm PVC pipe line size as required

Optional:

Particulars	Details
Plinth wall	1.5ft width 9" above GL for all sides of length and width
Motor pumps	Open well submersible pumps 1 HP 3 ph for watering



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Sheed Ling Tray

Tissue Culture Bottle

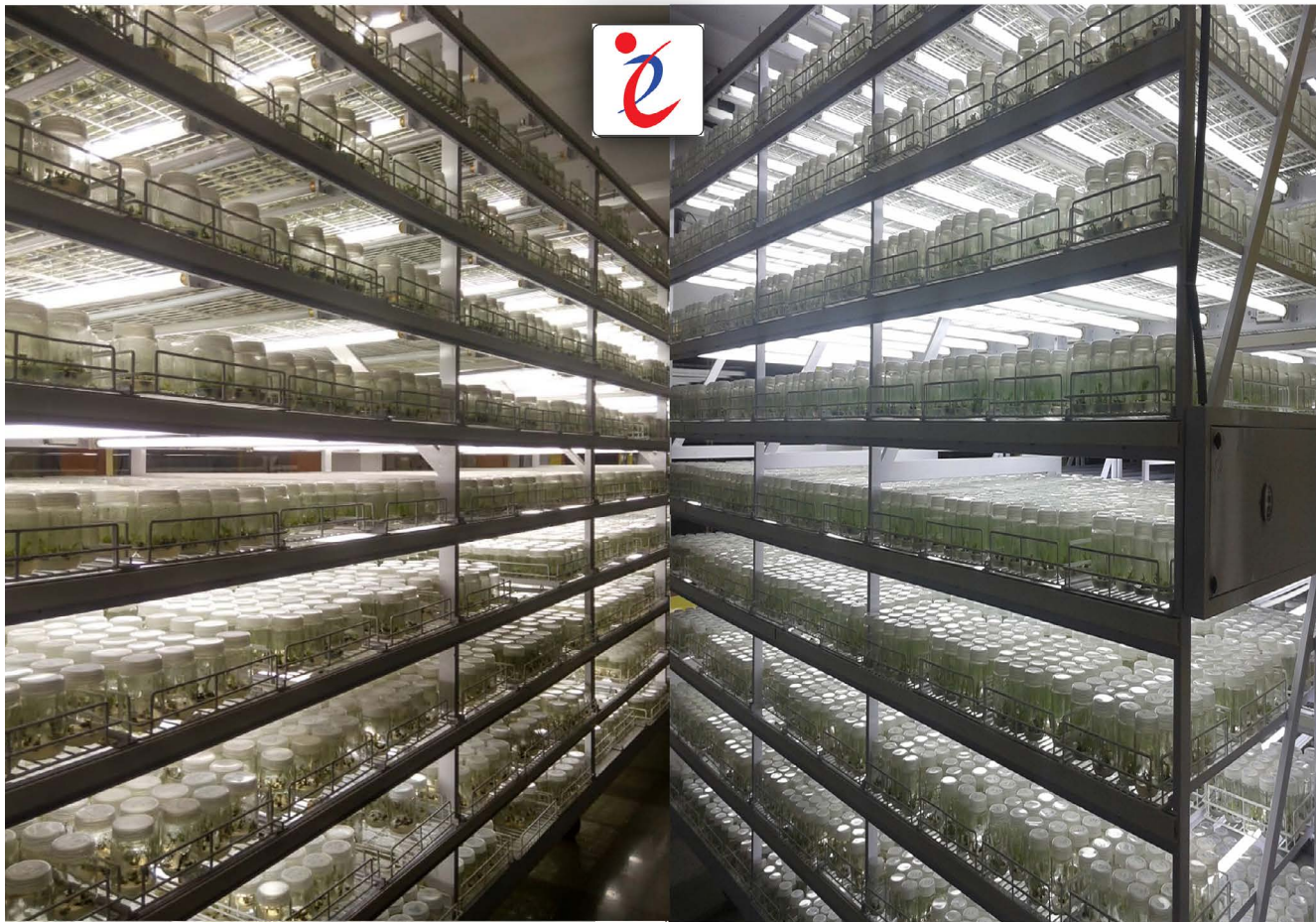


Tissue Culture Bottle

Product Specification:

Usage/Application	Plant tissue culture
Material	Soda glass
Shape	Round
Capacity	370ml / 450 ml /250 ml
Temperature Range	Glass autoclavable
Minimum Order Quantity	20000 Piece

Plant Tissue Culture Racks



Tissue Culture Racks (Industrial / Commercial)

Product Specification

TISSUE CULTURE RACKS

- R1- Fixed Racks with or without castor wheel
- R2- Movable Racks with rail and geared movement
- Detailed specifications attached with financial quote for your reference

TECHNICAL SPECIFICATIONS

TC Racks are designed keeping in mind the application research or commercial production.

Research rack: are generally fitted with multiple PAR lights with photoperiodic timer & shelves are either mild steel powder coated/ glass/SS/ tray mounting type.

The racks are mounted on castor wheels.

Commercial Production Racks:

Are generally designed as per customer specification depending on the rooms size & total bottle capacity required. These racks are generally 10-20 feet in length & 4.2ft depth & 8-9ft Height. These racks can commonly accommodate 3000-14000 bottles per rack. Racks are fitted PAR lights with photoperiodic timer. Racks can be either fixed or castor wheel mounted or on rails with mechanical movements.

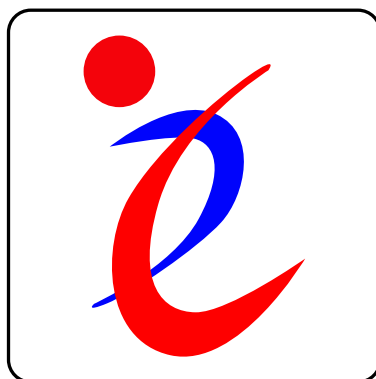
Size (Approx) LXDxH	Designed as per room size
Bottom Frame	ISBC 75 / 100 mm
Side/ Supporting frames	MS tubular 25x 50mm 16 Swg
Tube and chock & Tray Channel mounting	C Channel 12x50x12mm 2mm CR sheet
Tray mounting Channel	L & T type Channel 25x20mm 2mm CR sheet
Distance between Tray bottom and Tube frame bottom	270mm
Rack fixing	MS coated bolts and nuts
Painting	Epoxy powder coated
Colour	Classic white
Size of Tray	365x435x75mm
Tube size	1200mm
Tube Wattage	FI 36 W / LED 20W
Ballast	Electronic 36 W

Construction:-

- **Bottom Frame:-** MS channel (ISBC 75) 75x30x5mm/ 100x40x5 mm
- **Side Frames:-** 25x50mm MS tubular 16 SWG
- **Tube and Chock Mounting:-** 12x50x12mm C Channel constructed out of 2.0mm CR Sheet
- **Tray Mounting Channel:-** 25x20mm L and T Channel constructed out of 2mm CR sheet
- **Rack Mounting:-** On MS wheel with gear arrangement mounted on solid rail for easy mobility for cleaning and other purpose using rotating handle on side. Or Heavy castor wheel mounted.
- **Control panel:-** mounted on side with MCB'S contactor and Digital timer
- **Painting:-** Powder coated classic white
- **Fittings:-** MS coated Bolts

Electrical:-

- **Tube:-** Philips 36 W Fl. Tube / 20W LED
- **Ballast:-** Philips Sumo 36 W
- **Side Holders:-** Branded
- **Timer:-** Programmable Digital
- **Contactor:-** 16 amps 3 Pole Branded/ SSR 16A
- **Control:-** MCBs branded one each for each row
- **Wiring:-** Main input wire 2.5 Sq.mm Havels/ Finolex or similar make in PVC casing
- **Tube to chock:-** 0.25 sq.mm wire



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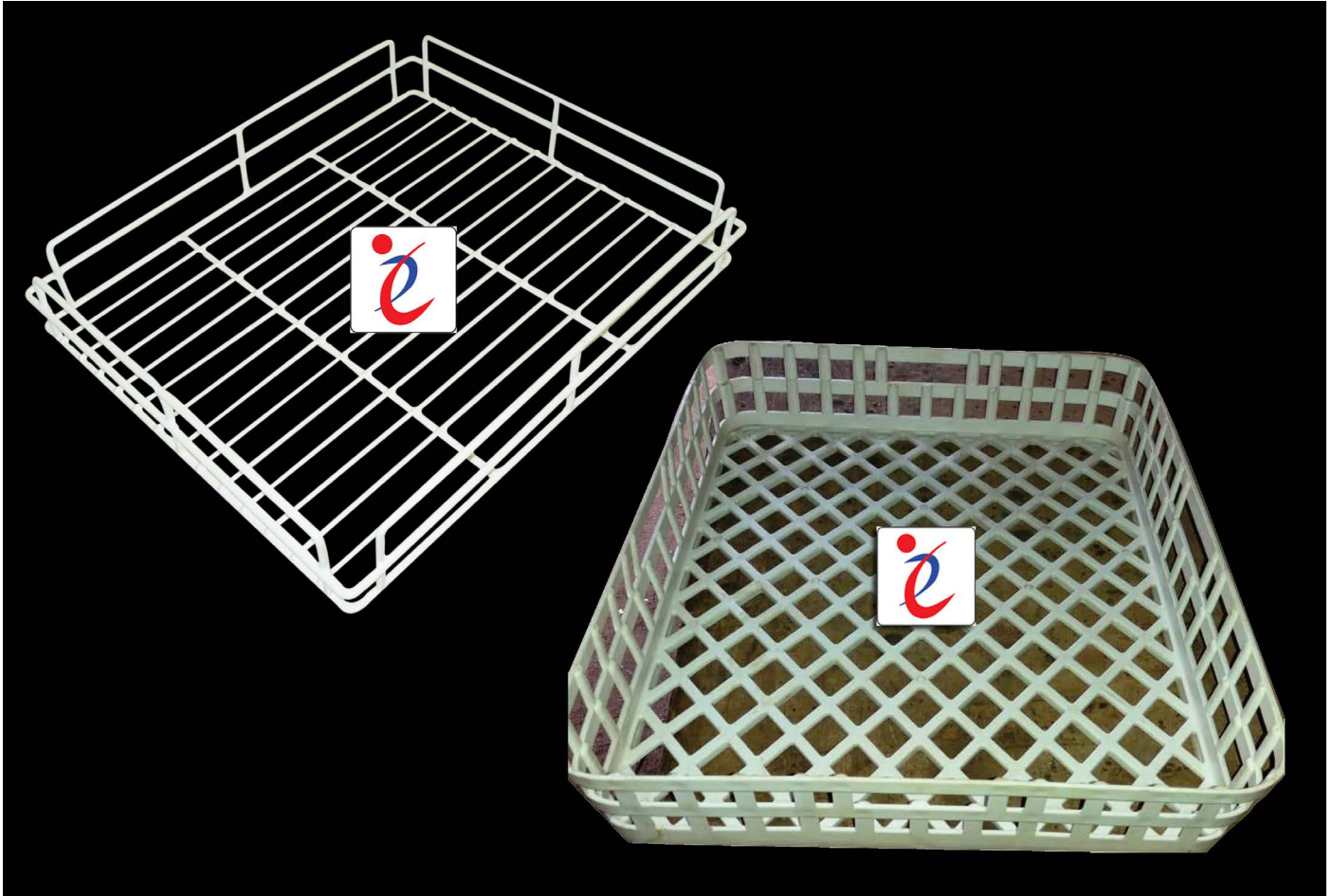
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Tissue Culture Tray



Product Specification

- Wire mesh PVC coated Tissue Culture tray, Heavy duty, Thick PVC coating
- **Details :** Wire mesh tray with PVC Coating in white colour
- **Size :** 365x435x75mm
- **Capacity :** 250ml bottle 30nos / 370ml bottle 28nos



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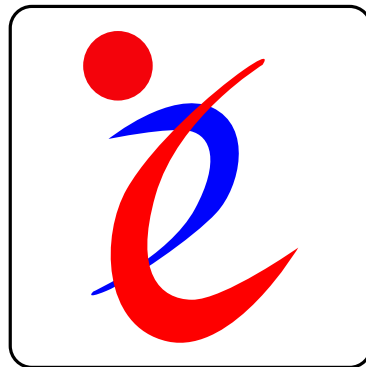
Walk in Cold Room



1	Approx. Cold room size	On customer demand
2	Products to be stored	Vegetables & canteen consumables
3	Type	Walk In
4	Designed Temperatures	Positive Temperature: +2 to +10 (adjustable)
5	Consumable temperatures	30 ± 5°C
6	Ambient Outside Temp. - Cold room	30 ± 5°C (Approx.)
7	Ambient Outside Temp. - Condensor	40°C ± 5°C (Approx.)
8	Door Opening :-No of times/hr	Min. 3
9	Ceiling & Walls	
	Lamination In/Out	All GI PC PUF panels
	Material of Insulation	PUF
10	Floor	
	Type of floor	PUF slab aluminum chequered plate (min. 2 mm) & suitable with anti skid on top finish.

	Thickness & material of insulation (mm)	Pre Fab modular PUF panels of min. 60 mm
11	Door	
	Size of Door (Approx.)	Suitable for cold room
	Type of Door	Flush type self-closing swing door, including anti condensation door heater, Padlock, step ramp, Door to have vision panel of approx. size 300 X 300 mm, 100% fail safe provision to open from inside with a internal release device that can be over ridden from inside.
11	Refrigeration System	
	Units of referigeartion system	02 nos. (1working + 1 stand by) / as required
	Type of referigeration system	Split type /Casette type
	Make	Blue Star/Voltas/Carrier/Daikin/ Approved eq.
	Type of Condenser	Air cooled
	MOC of Evaporator	Stainless steel 304
12	Control Panel	<p>Forced Air cooled</p> <p>Digital, electronic microprocessor based control panel with LCD/LED screen to operate on mains to be fitted on the wall of the room (outside). Wiring of standard makes for interconnection between the panel & condensing units to be included. Temperature sensing for multiple locations in the cold storage along with alarm for High/low temps, door open to be included. Control panel to include temperature monitoring and control & alarm system. The panel to have data logging ability for 30 days, software with open protocol, provision for BMS connectivity. UPS battery for control panel having 1 hr back up</p>

13	Storage racks	The entire cold shall be supplied with storage racks and baskets as indicated in the schedule of rates.
14	Rack – 1	One wall to be with SS rack or as required
15	Storage baskets	10 nos./ as required



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Germination Chamber



Walk in Germination Chamber

Based in Karnataka (India), we are the reliable Manufacturer and Supplier offering Germination Chambers in various sizes and specifications to provide the user's with largest germination areas within the available spaces. Our expert professionals design the Germination Chambers in an affordable yet very functional manner to provide optimum germination conditions like lighting, humidification etc.

Technical Specification for Walk in Germination Chamber Construction :

- Room Size : 10'x10'x7' (LXBXH feet)
- Mild Steel angular frame construction within the room to mount PUF insulated Panels
- For sandwich panel-gla met 4 external steel wall facing of 0.5mm thick and internal steel wall facing 0.4mm thick the coating on both the steel facings shall be smp on base metal that is galvalume thickness in mm 30 mm
- PUF construction door with glass window on heavy hinges and lock
- Wall mounted Digital Temperature and Humidity Indicator with all controls and Indicators externally near the door for easy access and operation.
- Temperature can be controlled from 5C above ambient to 60C with an accuracy of $\pm 1C$
- Humidity can be controlled up to 95% RH with an accuracy of $\pm 5\%$
- **RACKS**
- 8.2' x 2' x 6.5' Or As required Growth racks to hold 20 Nos 2' tubes

- Suitable to hold 40 trays For Germination

Trays :

- PVC coated
 - Aluminum inner trays for the above. **Optional**
 - Electrical Fittings
 - 2' Fluorescent tubes 40 Nos.
 - Externally mounted Electronic choke Philips -40 Nos.
 - MS powder coated cabinet with exhaust fan system to mount Electronic Ballast
 - 4KVA Voltage stabilizer – 1 No.
 - Control panel MS Powder coated – 1No,
 - All electrical fittings like Contactors, MCB's, Timers with single key operation
 - Electrical fitting to mount Humidifiers and room heaters
 - Racks Individual row on off felicity externally
 - Humidifier and room heater on off felicity externally
 - Thermostatic digital controller externally to automate room heater
 - Air Conditioners : Split AC with Voltage stabilizer 1.5TR
-
- **Humidifiers and Room Heaters :**
 - Aerosol / Ultrasonic Room Humidifiers stainless steel with high pressure blower – one/ two Nos.
 - Room heater with Air circulation facility –

SAFETY SYSTEMS

- The system is fitted with fool proof safety system to protect over temperature and Low temperature.
- Optional : Any civil work including flooring plumbing plastering external electrical will be charged extra

Pre-Installation Requirement :

- Tile flooring, $\frac{3}{4}$ " water tap connection 01nos,
- Three phase Power supply, 32Amps 01nos any where externally to the room
- Facility for accommodation with food for 7-8 workers for 15days at work site.
- Power to operate hand tools at site.

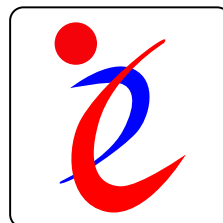
Chemical Storage



CHEMSTOR-CHEMICAL STORAGE CABINETS

Since hazardous materials must be stored safely, Els Instruments manufactures chemical storage cabinets with no exposed metal parts. Units are constructed out of acid resistant polypropylene. All joints are thermally welded by a special process without using metal fasteners.

Chemical storage cabinets can be connected to an extraction system for continuous extraction of volatile gases. This is to make sure that the laboratory air is safe to breathe and environment friendly.



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Safety Fitting



People in laboratory are exposed to many occupational hazards and harmful substances. Conventional safety measures are taken in most of the places.

There are many kinds of safety fittings, out of which a few we mention here below:

- Eye wash
- Emergency shower
- Safety station
- Pullout shower
- Gas leak detector
- Shut-out valve
- Sensor alarm, etc

Sink and Drip Cups

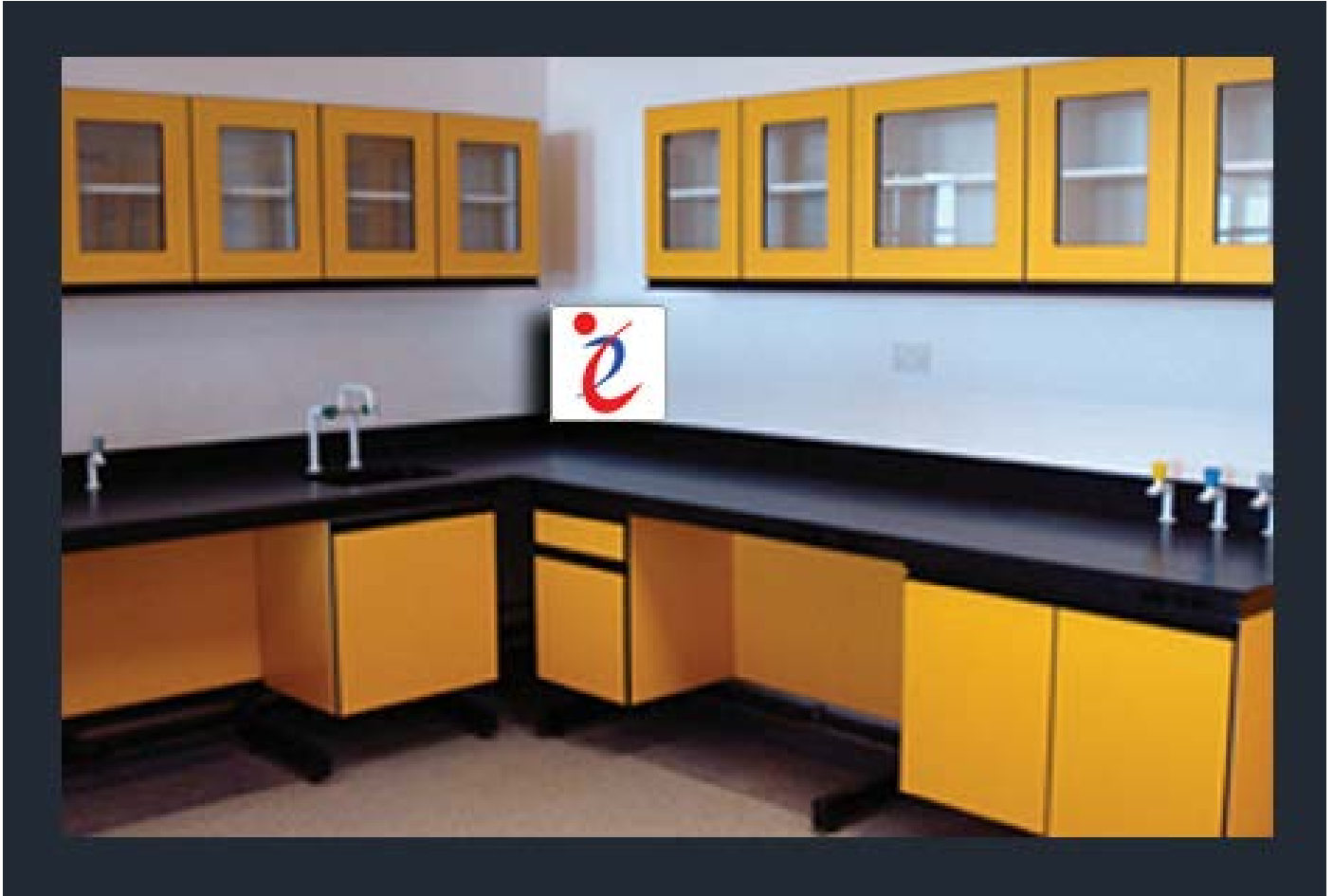


Lab Sinks and Drip cups shall be selected to match the worktop and application. The varieties of sinks that Els Instruments offers are – Stainless steel sink, Polypropylene sink, Epoxy sink and Ceramic sink.

Description:

Sinks	Suitable worktops
Polypropylene sink	Polypropylene, Epoxy, Phenolic resin, Acrylic Melamine laminate, Compact laminate
Epoxy sink	Epoxy, Phenolic resin
Stainless steel sink	Stainless steel, Melamine laminate
Ceramic sink	Ceramic worktops

Storage System



Laboratory storage cabinets provide larger storage space. For effective utilization of the wall space above the benches, wall cabinets can be used. Storage cabinets are available as open (without doors), with panel doors or with glass infelt doors.

Wall cabinets are available with sliding glass doors also.



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Laboratory Modular Furniture



We are Manufacturer and Supplier **Laboratory Modular Furniture** that is appreciated for reasonable pricing and innovative designing. Our research and development team takes individual requirements of the customers into account to provide them with user-friendly Laboratory Modular Furniture having a matchless perfection.



ELS Instruments has the provision of a wide variety of stylish lab furniture, providing modern work benches. We have different types of work benches varying in colour and designs – Wall bench, Island bench and Peninsular bench – each of which has a specific significance and are fit for a variety of purposes.

ELS Basic Series

The worktops are installed on under bench cabinets–panels. The cabinets are constructed on integrated plinths of 100mm to keep the cabinet bottom elevated from the floor. The cabinet rests on the floor without any additional support of framework

ELS Suspended Series

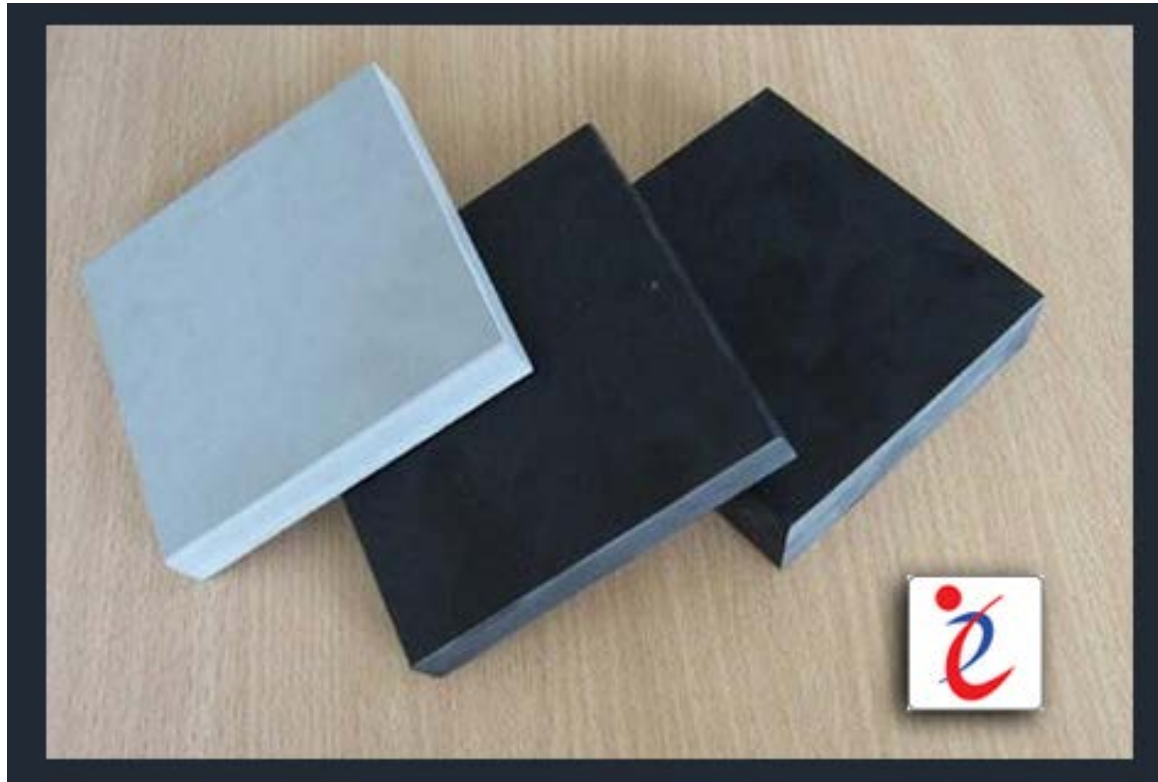
Worktops are mounted on heavy duty cantilever metal frame. Suspended cabinets or mobile cabinets shall be used with this system. Thus, under-bench spaces can be organized by the user to adapt their needs easily without the help of a technician. Ease of access to the service area is a special advantage of this series

ELS H Series

Worktops are placed on metal frameworks. This series is designed to support heavier loads. The 'H' frames are made from mild steel square sections. Under bench cabinets rests on frames.



Work Tops



Worktops are the most used part of a laboratory furniture. Hence, it shall be selected carefully to suit the application, chemical resistance, thermal stability, impact resistance, durability, ease of sterilization, aesthetics and cost effectiveness.

We have various types of worktops available such as:

- Phenolic Resin (Trespa)
- Epoxy Resin (Durcon)
- Melamine laminated plywood
- Compact laminate
- Polypropylene
- Stainless steel
- Acrylic
- Ceramic worktops
- Granite
- Solid timber

Consultancy



Being a front-runner in the industry, we are involved in providing our customer's range of **Business Idea and Consulting Services**. Business idea/ Consulting services is rendered using best quality inputs and types to cater the client's needs at most reasonable rates.

OUR MOTO

- Quality assured
- Time-framed
- Perfection in work
- Complete work satisfaction

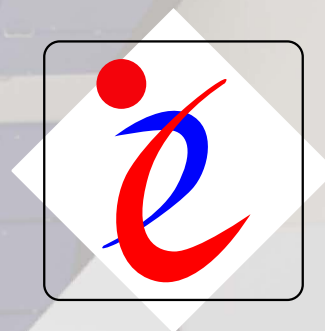
Design



Product Description

We take pride as the one and only company within the country that provides complete turnkey solution for establishment of Plant Tissue Culture Laboratories as per NCS-TCP Guidelines.

To our credit we have designed more than 10 tissue culture Laboratories Big and small .



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Operation



Product Description

This service relieves you from the mundane operational pressures and allow you to be at ease by handing over the operation to the professionals at ELS. We serve & manage the entire Laboratory by well-trained professionals and take end-to-end responsibility in production and operation. We adapt to your business requirements and ensure the highest peak performance at a minimal cost.

ELS Instruments can operate with your current staff or operate the same with our staff who are trained and managed professionally. We can bring lot of changes in reporting and time bound delivery, which will result in cost savings and efficiency. We can access your current infrastructure and recommend process which suits the operations with right manpower, improvement or realignment of right process to run the Laboratory smoothly.

Analytical Balance



Analytical Balance - Touch Screen



MAB 220T

- Electro Magnetic Force Compensation
- Touch Screen display
- Percentage Weighing
- Multiple Weighing Units
- Density Determination Function
- RS232C Interface
- Counting Weighing mode
- Underhook Weighing
- Calibration with Internal weight
- Time
- Date

PRODUCT SPECIFICATIONS:

MODEL	MAB 220T (Touch screen)
Max. (Capacity)	220 g
Readability (d)	0.0001 g
Repeatability (+)	0.2 mg
Linearity (+)	0.4 mg
Min. (Capacity)	10 mg
Verification Scale Intervals (e)	1 mg
Calibration	Motorized Internal Calibration
Class	Class I
Display	5 inch Touch Screen
Response Time	4 - 5 Sec
Pan Size (mm)	80 mm
Tare Range	Full
Operating Temperature	+15 C to + 25 C
Sensitivity Drift +	2ppm / C
Density	Function Available
Key Sound	Yes

Weighing Chamber	240 x 190 x 265 mm
Unit	g, mg, ct, oz
Baud rate Options	1200, 2400, 4800, 9600
Interface	RS232C
Power Supply	AC 220V / 50-60 Hz
Dimension (LxWxH) mm	475 x 315 x 485
Weight	10 Kg



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Salient Features

- Green LED, Front & Back display
- Auto Calibration with External Weight.
- Low Battery Indicator.
- Multifunction Weighing Units.
- Auto Zero tracking.
- In built rechargeable battery for continues use.
- Piece counting function
- RS232 Interface.

Product specification:

MODEL	PGB 630	PGB 1030
Capacity	600 g	1000 g
Readability	0.01 g (10 mg)	
Repeatability (±)	0.01 g	
Linearity (±)	0.02 g	
Pan Size	120 Ø mm	
Calibration	Automatic External	

Tare Range	Full	
Operating Temperature	10oC to 40 oC	
Power Supply	AC 220V / 50-60 Hz	
Dimension (LxWxH) mm	330 x 240 x 120	
Weight	2.2 kg	

with Glass Windshield
Precision Gold Balance
PGB 610



Salient Features

- Glass Windshield
- Auto Calibration with External Weight
- Low Battery Indicator
- Multifunction Weighing Units
- In built rechargeable battery for continuous use
- Auto Zero tracking
- Overload Protection Design
- Front RED LED display
- Automatic Switch Off Option

- High precision loadcell sensor
- RS232 Interface

SPECIFICATIONS

MODEL	PGB 630	PGB 1030
Capacity	600 g	1000 g
Readability	0.01 g (10 mg)	
Repeatability (±)	0.01 g	
Linearity (±)	0.02 g	
Pan Size	120 Ø mm	
Calibration	Automatic External	
Tare Range	Full	
Operating Temperature	10oC to 40 oC	
Power Supply	AC 220V / 50-60 Hz	
Dimension (LxWxH) mm	325 x 260 x 350	
Weight	3.7 kg	

Thermal Printer



Thermal Printer

- Printing method: direct thermal
- Printing paper width: 58mm
- Valid printing width: 48mm
- Resolution 8 /mm (203dpi)
- Printing speed:60 mm/s
- Printing density: 8 dots/mm, 384 dots/line
- Printing speed: approx. 70mm/ sec. or 20 lines/sec.
- RS232 / USB Interface
- DB25 socket (female), supports RTS/CTS protocol,
- Ports: 2400,4800,9600,19200,38400,57600,115200bps
- Power Supply - DC7.5V

Density Kit

WDK-250



Salient Features

- **For solid density determination**
- **Suitable for MAB, HPB & PGB Series**
- **Can use for other weighing balance also**

STANDARD ACCESSORIES

- **Beaker Base**
- **Beaker**
- **PAN stand**
- **Pans suspension**
- **Thermometer**
- **Upper pan stand**

Density Determination Kit

According to the Archimedean Principle, Solid Body immersed in a liquid apparently loses as much of its own weight as the weight of the liquid it has displaced. This makes it possible to determine the unknown value. Depending on whether the body in quotient is liquid or solid. Thermal Printer Density Kit The international system of units specifies Kg/m³ as the unit of density. However, the unit g/cm³ is better suited to lab purpose

Precision Balance

PGB 3010 & 6000

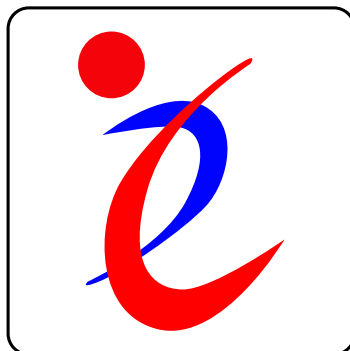


Salient Features

- Auto Calibration with External Weight
- Easy to read LCD Display with backlight
- Multifunction Weighing Units
- Auto Zero tracking, Low Battery Indicator
- Overload Protection Design
- S.S. Weighing Pan, Level indicator, Adjustable Fit
- High Resolution, Quick Weighing, Accurate Result
- RS232C Interface
- In built rechargeable battery for continues use.

MODEL	PGB 630	PGB 1030
Capacity	3000 g	6000 g
Readability	0.01 g (10 mg)	0.1 g (100 mg)
Repeatability (±)	0.01 g	0.1 g
Linearity (±)	0.02 g	0.2 g
Pan Size	180 x 195 mm	

Display	LCD
Calibration	Automatic External
Tare Range	Full
Operating Temperature	10oC to 40oC
Power supply	AC 220V/ 50-60 Hz
Dimension (LxWxH) mm	440 x 265 x 220
Weight	4 kg



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Precision Balance PGB 3110 & 6100



Salient Features

- Auto Calibration with External Weight
- Easy to read LCD Display with backlight
- Multifunction Weighing Units
- Auto Zero tracking, Low Battery Indicator
- Overload Protection Design
- S.S. Weighing Pan, Level indicator, Adjustable Fit
- High Resolution, Quick Weighing, Accurate Result
- In built rechargeable battery for continues use.

SPECIFICATIONS

MODEL	PGB 630	PGB 1030
Capacity	3000 g	6000 g
Readability	0.01 g (10 mg)	0.1 g (100 mg)
Repeatability (±)	0.01 g	0.1 g
Linearity (±)	0.02 g	0.2 g
Pan Size	180 x 195 mm	
Display	LCD	
Calibration	Automatic External	
Tare Range	Full	
Operating Temperature	10oC to 40oC	
Power supply	AC 220V/ 50-60 Hz	
Dimension (LxWxH) mm	440 x 265 x 220	
Weight	4 kg	

TTB 3 / 10 / 31 TTB 20HH



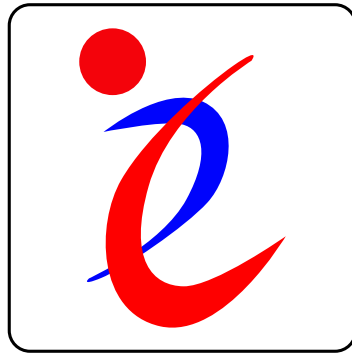
Table Top Balance

SPECIFICATIONS

MODEL	TTB 3	TTB 10	TTB 31	TTB 20HH
Capacity	3 kg	10 kg	30 kg	20kg
Readability	0.1 g (100 mg)	0.5 g (500 mg)	1 g	0.1 g (100 mg)
Repeatability (±)	0.1 g	0.5 g	1 g	0.1 g
Linearity (±)	0.2 g	1.0 g	2 g	0.2 g
Pan Size (mm)	210 X 260			230 X 320
Display	RED LED			LCD
Interface RS232C	Optional			Yes
Tare Range	Full			
Operating Temp.	10oC to 40oC			
Power Supply	AC 220V / 50-60 Hz			
Dimension (LxWxH) mm	365 x 320 x 160			410 x 370 x 145
Weight	3.5 kg			5 kg

Salient Features

- Built in rechargeable battery for continues use
- Rust Proof Stainless Steel Platter
- Auto Power Off, Battery Indicator
- Fast Weighing response time
- Overload Protection Design
- Front display



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Economic Compact Balance



ECB 300



ECB 600 / 600

Specification:

MODEL	ECB 300	ECB 600	ECB 6000	
Capacity	300 g	600 g	6000 g	
Readability	0.01 g (10 mg)	0.1 g (100 mg)	1 g	
Repeatability (±)	0.01 g	0.1 g	1 g	
Linearity (±)	0.02 g	0.2 g	2 g	
Pan Size (mm)	120 Ø	155 x 155		
Display	RED LED			LCD
Interface RS232C	Optional			Yes

Tare Range	Full	
Operating Temp.	10oC to 40oC	
Power Supply	AC 220V / 50-60 Hz	
Dimension (LxWxH) mm	300 x 165 x 90	245 x 170 x 160
Weight	1 kg	

Salient Features

- Compact and space saving
- DC Adaptor available
- ECB 300 with draft shield
- Auto zero tracking
- Auto Calibration with External Weight
- Stable Indicator & Accurate Result.



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Platform Balance



Salient Features

- Accumulation
- Up & Low limit alarm
- Hold Function option
- Low Battery indication, Power Off automatically
- Animal Weighing Mode
- Built in rechargeable battery for continues use
- Rust Proof Stainless steel platter of High Quality
- Overload Protection Design
- Back Rail support provided
- RS-232 Interface

SPECIFICATIONS

MODEL	PFB 100	PFB 300
Capacity	100 kg	300 kg
Readability	10 g	20 g
Repeatability (±)	10 g	20 g
Linearity (±)	20 g	40 g
Pan Size	400 x 400	600 x 600
Display	LCD	
Calibration	Automatic External	
Tare Range	Full	
Operating Temperature	10oC to 40oC	
Power supply	AC 220V/ 50-60 Hz	
Dimension (LxWxH) mm	710 x 540 x 190	860 x 770 x 230
Weight	14 kg	23 kg

Crane Scales



Range 1000 C 1200OC 1400OC 1500OC

Safe Distance 1200 mm 1500 mm 1800 mm 2000 mm

OCS-5T, 10T



- Aluminum
- Hold Function
- Power Saving Function
- Low Battery Indicator
- Overload alarm
- Remote Control
- alloy casing

OCS-11W



- Wireless Crane Scale
- Wireless distance 300m
- Wireless Indicator with Printer
- Steel
- Overload alarm
- Power saving mode
- alloy casing

Specification:

MODEL	OCS-5T	OCS-10T	OCS-11W (Wireless)
Capacity	5 Ton	10 Ton	10 Ton
Readability	2 kg	5 kg	
Repeatability	2 kg	2 kg	
Display	RED LED		LCD
Control Distance	< 20m		
Response Time	6-10 Sec		
Battery	Rechargeable Battery 6V / 4AH		
Dimension (LxWxH) mm	110% F.S.		

Overload Warming	125% F.S.		
Safe Overload	125% F.S.		
Operating Temperature	10oC to 40oC		
Power Supply	AC 220V / 50-60 Hz		
Dimension (LxWxH) mm	660 x 380 x 260	390 x 580 x 720	
Weight	20 kg	30 kg	62 kg

STANDARD WEIGHTS



Maximum Permissible error for Weights (+ mg) as per OIML R111 tolerance Table.

OIML R111 Tolerance Table (+ mg)				
	E1	E2	F1	F2
50 kg	25	80	250	800
20 kg	10	30	100	300
10 kg	5.0	16	50	160
5 kg	2.5	8.0	25	80
2 kg	1.0	3.0	10	30
1 kg	0.5	1.6	5.0	16
500g	0.25	0.8	2.5	8.0
200 g	0.10	0.3	1.0	3.0
100 g	0.05	0.16	0.5	1.6
50 g	0.03	0.10	0.3	1.0
20 g	0.025	0.08	0.25	0.8
10 g	0.020	0.06	0.20	0.6
5 g	0.016	0.05	0.16	0.5
2 g	0.012	0.04	0.12	0.4
1 g	0.010	0.03	0.10	0.3
500 mg	0.008	0.025	0.08	0.25
200 mg	0.006	0.020	0.06	0.20
100 mg	0.005	0.016	0.05	0.16
50 mg	0.004	0.012	0.04	0.12
20 mg	0.003	0.010	0.03	0.10
10 mg	0.003	0.008	0.025	0.08

5 mg	0.003	0.006	0.020	0.06
2 mg	0.003	0.006	0.020	0.06
1 mg	0.003	0.006	0.020	0.06

OIML Standard Weights – Class E1



E1

SPECIFICATION:

Class	E1
Standard	OIML R111
Material	Austenitic Stainless Steel
Construction	Solid single piece fabrication
Cavity	No cavity adjustment
Density	8.00g/cm³
Magnetic Susceptibility	< 0.005
Intensity of polarization	< 2.5 μT
Shape	Cylindrical with knob
Finish	Mirror Polish
Packing	Aluminum alloy box
Accessories	Tweezer, Cloth, Gloves

Our Range Class E1

E1 - 1mg to 500mg - 12pcs. E1 - 1mg to 200g - 23pcs.

Application

E1 Class weights are recommended for primary reference standard for calibration other

It cannot use in General Laboratory.

OIML Standard Weights – Class E2

Class	E2
Standard	OIML R111
Material	Austenitic Stainless Steel
Construction	Solid single piece fabrication
Cavity	No cavity adjustment
Density	8.00g/cm3
Magnetic Susceptibility	< 0.005
Intensity of polarization	< 2.5 μ T

Shape	Cylindrical with knob
Finish	Mirror Polish
Packing	Aluminum alloy box
Accessories	Tweezer, Cloth, Gloves

Our Range Class E2

E2 - 1mg to 500mg - 12pcs. E2 - 1mg to 200g - 23pcs.

E2 - 20kg, E2- 10kg, E2 - 5kg, E2 - 2kg, E2 -1kg, E2 - 500g, E2 - 200g, E2 -100g, E2- 50g, E2 - 20g to 1mg.

Application

E2 Class weights are recommended for the calibration of micro, semi-micro & analytical balances where very high accuracy is required.

E2 Class weights also can use to calibrate F1 Class weights.

We can Provide Calibration Certificate from NABL Accredited Lab (Charges applicable)

Autoclave Vertical



Double wall construction with inner S.S. 304. all these sheets are argon welded & outer chamber made of high quality S.S. 304/M. S sheet duly powder coated. Electrically heated by means of I.S.I. quality immersion heaters with working pressure 15 PSI. Hydraulically dye pressed Lid from S.S. Plate with. easy pedal lifting device. having pressure gauge. two Nos. safety valve. quick release coupling and handle with heater cover stand. Water level arrangement cut off buzzer system and S.S. perforated basket supplied along with unit on free of cost.

Inner S.S & Outer M.S

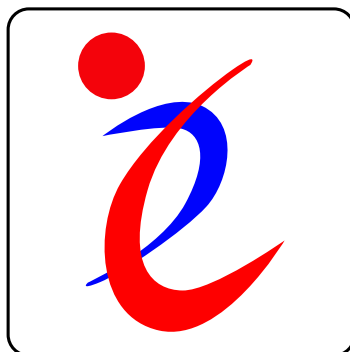
Model No.	Dia x Height	Rating	Volume
EAUC-A1	250 x 450mm	1.5KW	22Ltr
EAUC-A2	300 x 500mm	2.0KW	35Ltr
EAUC-A3	350 x 550mm	3.0KW	53Ltr
EAUC-A4	450 x 600mm	4.0KW	90Ltr
EAUC-A5	550 x 750mm	6.0KW	175Ltr

Inner & Outer S.S

EAUC-S1	250 x 450mm	1.5KW	22Ltr
EAUC-S2	300 x 500mm	2.0KW	35Ltr
EAUC-S3	350 x 550mm	3.0KW	53Ltr
EAUC-S4	450 x 600mm	4.0KW	90Ltr
EAUC-S5	550 x 750mm	6.0KW	175Ltr

OPTIONAL

- a) Digital Temperature controller cum indicator (instead of Energy Regulator)
- b) Digital Timer
- c) Auto Pressure cut off system
- d) Auto Vacuum Breaker
- e) Auto Purging & Exhaust (Solenoid Valve)
- f) Water level glass indicator



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Autoclave Triple Walled Vertical



With Radial Locking System Autoclave

Dry type vertical triple walled construction. all the walls are made of thick high grade stainless Vertical steel sheet of SS-304 grade. The lid is made of Stainless-steel lid with radial locking system and foot paddle lifting device with silicon gasket. provided with built-in safety valve, pressure gauge. pressure release valve and water level indicator. The pressure is adjustable from 5 psi with automatic pressure control Switch. controlled with microprocessor based digital controller with timer supplied with stainless steel basket.

Model No.	Dia x Height	Rating	Volume
EAUT-S1	250 x 450mm	1.5KW	22Ltr
EAUT-S2	300 x 500mm	2.0KW	35Ltr
EAUT-S3	350 x 550mm	3.0KW	53Ltr
EAUT-S4	450 x 600mm	4.0KW	90Ltr
EAUT-S5	550 x 750mm	6.0KW	175Ltr

OPTIONAL

Lid with Bakelite knobs can be (instead of radial locking system) On request

- Auto Pressure cut off system
- Auto Vacuum Breaker
- Auto Purging & Exhaust (Solenoid Value)

NB: Special size can be fabricated on request

Flash Autoclave (Dental)



It is tabletop front loading autoclave. double walled unit. outer M.S. powder coated inner 304 grade S.S. All joints are argon welded. Door is made up of heavy gauge S.S. sheet and using high quality silicon gasket used with ISI marked immersion heater 1.5 KW In 230/240 V.

Features:

- Fully automatic microprocessor-based control
- Digital timer both for wet and drycycle
- Alarm alter the total command is completed
- Cyclic timer 10 to 15 minutes
- Temp range 121°C-134°C

Unit is supplied with 2 Nos. S.S. trays with tray stand

Model No.	Dia x Depth	Volume
EFAC-1	230 x 410mm	17Ltr

Autoclave Portable

Single wall electrically operated constructed with Stainless steel 304 grade

Model N	Dia x Height	Body	KW	Capacity
EAUC-PS	300 x300mm	S.S	1.5	20Ltr

Autoclave Horizontal cylindrical



Triple walled unit made of S.S. 304 grade all joints are argon welded. Mounted horizontal on a sturdy. heavy mild steel tubular stand duty powder coated. Pressure is adjustable horn 10-20 PSI. Fitted with pressure gauge. Safety valve and steam release valve. The units fitted with MULTIPLE OPERATING VALVE to carry out all functions of sterilization cycle at one point i.e. Steam to chanter.

Exhaust, Vacuum/Drying. Fitted with a Digital Temperature Indicator to indicate inner temperature. Automatic Pressure Control device and Automatic Low Water Level Cut-off Device. Lid is made of S.S. plate provided with radial lacking system.

Triple walled unit made of S.S. 304 grade all joints are argon welded. Mounted horizontal on a sturdy. heavy mild steel tubular stand duty powder coated. Pressure is adjustable horn 10-20 PSI. Fitted with pressure gauge. Safety valve and steam release valve. The units fitted with MULTIPLE OPERATING VALVE to carry out all functions of sterilization cycle at one point i.e. Steam to chanter.

Exhaust, Vacuum/Drying. Fitted with a Digital Temperature Indicator to indicate inner temperature. Automatic Pressure Control device and Automatic Low Water Level cut-off Device. Lid is made of S.S. plate provided with radial lacking system.

Model No.	Dia x Depth	Capacity	Load
EAUC-HC1	250 x 450MM	22Ltrs	2.0KW
EAUC-HC2	300 x 500mm	35 Ltrs	3.0KW
EAUC-HC3	350 x 550mm	50 Ltrs	4.0KW
EAUC-HC4	400 x 600mm	75 Ltrs	6.0KW
EAUC-HC5	450 x600mm	95 Ltrs	6.0KW
EAUC-HC6	550 x750mm	175 Ltrs	8.0KW
EAUC-HC7	500 x1100mm	215 Ltrs	9.0KW

NB: Special sizes can be fabricated on request

Hot plate Rectanguar With Energy Regulator

Heavy MS Body duty powder coated with SS or MS Top, fitted oath Energy Regulator and Rotary Switch supplied complete with cord and plug to work on 220/230V AC (Temperature 250°C-300°Capprox.)

S.S Top

Model No.	Size	Watts
EHPE-1SS	250mmx300mm	2000
EHPE-2SS	250mm x400mm	2000
EHPE-3SS	300mm x450mm	2000
EHPE-4SS	450mm x600mm	3000

M.S Top

Model No.	Size	Watts
EHPE-1MS	250mmx300mm	2000
EHPE-2MS	250mm x400mm	2000
EHPE-3MS	300mm x450mm	2000
EHPE-4MS	450mm x600mm	3000

B.O.D Incubator [Cooling Incubator]



Most versatile for Biochemical Oxygen Demand determinations. These Cooling Incubators are designed for close control of incubation. These are used for BOD test, storage of sensitive cultures, vaccines etc.: culture of bacteria microorganism and plant life: serum incubation studies and immunological work etc. Double wall construction, inner made of SS-304 and outer M.S duly powder coated with adjustable trays. The instrument is having CFC free refrigeration and heating system with powerful Air circulation for creating positive airflow throughout the working chamber. The unit having a temperature range from 5°C to 60 ° C with an accuracy of ± 0.5 ° C. Temperature is controlled by ELS Make Micro Processor Digital Temperature Controller cum Indicator and provided interior lighting (LED) arrangement white door opening time.

[A] Inner chamber S.S

Model No.	Volume	Inn Chamber WxDxH (mm)	CAP	No. of shelves
EBOD-3S	90Ltrs	420 x 400 x 650 mm	3cft	2
EBOD-6S	150Ltrs	450 x 400 x 820 mm	6cft	3
EBOD-10S	275Ltrs	570 x 510 x 930 mm	10cft	3
EBOD-12S	350Ltrs	620 x 570 x 1000 mm	12cft	3

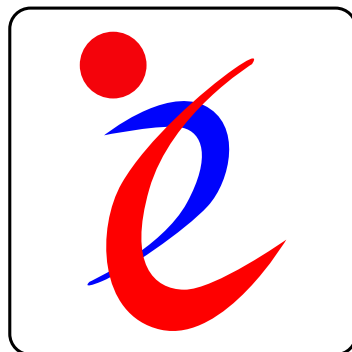
OPTIONAL

- a) Chamber illumination with the help of Flu. Lamp
- b) Sterilization of work area with the help of UV Lamp
- c) Cyclic Timer 0-24 hours for regulating UV Lamp inside the chamber
- d) Automatic Voltage Stabilizer 1 KVA [For KBOD- 3 & 6]

Automatic Voltage Stabilizer 3 KVA [For KBOD -12 &10]

Note: Full Stainless Steel unit can be supplied in all models at on specific cider

NB: Non use of stabilizer will render the warranty of the equipment invalid



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Blood Bank Refrigerator



It is an ecofriendly CFC free refrigerant and specially designed for storing blood bags and other specific medical products like vaccines. cultures. reagents, etc., in fixed temperature of 4 °C to 6 °C with an accuracy of $\pm 1^{\circ}$ C. Made of double walled inner chamber stainless steel and outer mild steel duly powder coated.

Temperature Controller: Fully Automatic Micro Processor based Digital Temperature Controller cum Indicator

Refrigeration: By hermetically sealed compressor unit with cap [Vary controlled balanced system

Insulation: PUF

Illumination: Internal cabinet lighting is provided with LED. whenever the door is opened Door. Made of toughened vacuum glass with frame

Storage: Provided SS trays for storing standard Blood Bags

Safety: An audio-visual alarm which comes in to operation in case of temperature variation beyond limit, either power failure or any other reason there by protecting the precious samples stored inside.

Model No.	Capacity	Volume	Inn Chamber WxDxH (mm)	No. of shelves
EBR-60	60Blood Bags	135Ltr	520 x 400 x 800 mm	4
EBR-144	144 Blood Bags	250Ltr	520 x 490 x 1000mm	5
EBR-244	244 Blood Bags	375Ltr	520 x 520 x 1100 mm	6
EBR-288	288 Blood Bags	620Ltr	520 x 520x 1200 mm	7

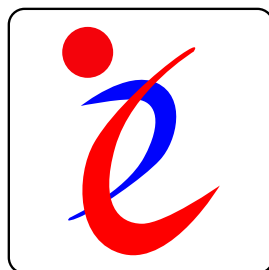
OPTIONAL

- Recorder -7 days Circular than Recorder: Ink type and Inkless type
- Bulls eye microprocessor controller with RS 232interfase to lake printout in regular interval without printer
- Voltage Stabilizer 1 Kva [For KBR- 408& 70]
Voltage Stabilizer 3 Kva [For KBR - 1208&1441]

Battery backup for digital temp shown for dig display during power failure

Note: Outer body SS 304 quality can be fabricated on extra cost

NB: Non use of stabilizer will render the warranty of the equipment invalid



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Blood Bag Shaker

Oscillating platform is made up of SS, been oscillated up and down with approximate 30mm displacement at the end.

Model No. EBBS-1



Platelet Incubator cum Agitator



These platelet Incubators are specially designed for close environment control for stored platelets. Ideally suitable for accommodating ELS Platelet Agitator. Unit also consist of Platelet Agitator and working in a fixed temperature at 22°C having an accuracy of $\pm 0.5^\circ\text{C}$. Constructed of double walls. the exterior is made of mild steel duly powder coated, and the inner chamber is made of SS. Theplex glass inner door make it possible to inspect without disturbing the temperature. All controls are mounted at the bottom of Platelet Incubator.

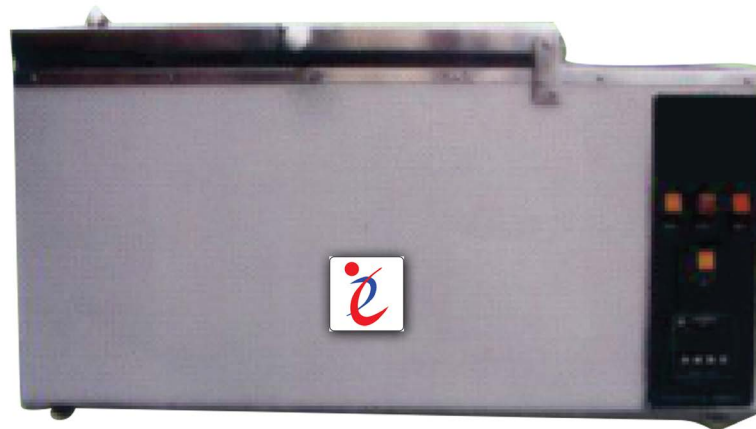
Model No	Inner size	Capacity
EPI-110	480 x 380 x 580 mm	110Ltr

OPTIONAL

- a) Recorder 7 days circular chart Recorder- Inkless and ink type
- b) Automatic Voltage Stabilizer 1 KVA

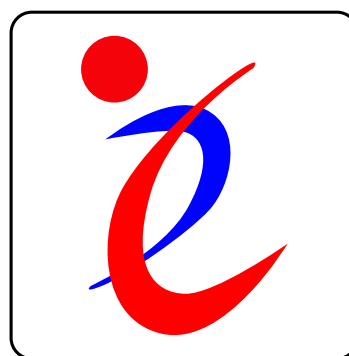
NB: Nonuse of stabilizer will render the warranty of the equipment invalid

Plasma Thawing Bath



Made of outer MS sheet duly powder coated and inner made of SS Sheet The temp is maintained by Micro Processor based Digital Temperature Controller cum indicator from ambient +5° C-60°Ct having an accuracy of +/-0.5° C with audio visual alarm for low & high temp. Mechanism of thawing is by pumping mechanism of high capacity pump and maintenance of temp of water by heater with sealed sensor dipped directly in water. Removable type S.S tray with partition for holding 12 bags Foldable lid made of S.S with two handles and the whole unit is to work on 230V. 50Hz.

Model No	Inner Size WxDxH	Capacity	Capacity of plasma bags
EPTB-1	470 x 290 x 260 mm	40Ltr	12-15



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Plasma Freezer



Plasma Freezers are designed for quick freezing and storing of plasma and related blood components at desired low temperature up to - 35° C. Available in vertical and horizontal models.

Horizontal: Provides uniform storage of plasma and related blood component products. preset temperature at -35°C with micro controller and circular than recorder.

Model No	Capacity of plasma bags	Inner Size
EPFH-130	130	700 x 480 x 600 mm
EPFH-240	240	1000 x 500 x 600 mm

Vertical: For storage of plasma bags at -35°C with circular chart recorder

Model No	Capacity of plasma bags	Inner Size W x D x H
EPFV-130	130	500 x 425 x 800mm
EPFV-240	240	500x 580 x 980 mm

Deep Freezer Horizontal (Chest Type)



This is an ecofriendly and CFC free refrigerant and constructed of double wall, the exterior is made of MS Sheet. duly powder coated. interior of SS having PUF insulation to minimize heat loss. Capillary controlled, balanced and hermetically sealed refrigeration is most economical, trouble free and exceptionally quiet performance. Temperature is controlled by Micro Processor based Digital Temperature Controller with single compartment having an accuracy of $\pm 3^{\circ}\text{C}$

Upto -20°C

Model No.	Inn. Dimension [W x D x H]	Max Temp	Vol
EDF-1	500mmx380mmx600 mm	-20°C	115Ltrs
EDF-2	700mmx480mmx600 mm	-20°C	200Ltrs
EDF-3	1000mmx500mmx600 mm	-20°C	300Ltrs
EDF-4	1000mmx600mmx700 mm	-20°C	420Ltrs

Upto -35°C

EDF-1SP	500mmx380mmx600 mm	-35°C	115Ltrs
EDF-2SP	800mmx380mmx600 mm	-35°C	180Ltrs
EDF-3SP	1200mmx400mmx600 mm	-35°C	300Ltrs

OPTIONAL Automatic Voltage Stabilizer 3 Kva

NB: Non use of stabilizer will render the warranty of the equipment invalid

Deep Freezer Vertical (Upright)



This is an ecofriendly and CFC free refrigerant and contacted of double wall, the exterior is made of M. S Sheet, duly powder coated and interior of S.S having PUF insulation to minimize heat loss. Capillary controlled. balanced hermetically sealed refrigeration is most economical, trouble free and exceptionally quiet performance and supplied with four Nos. standard storing trays. Temperature is controlled by Micro Processor based Digital Temperature Controller Cum Indicator having an accuracy of $\pm 3^{\circ}\text{C}$.

Upto-20°C

Model No.	Inn. Dimension [W x D x H]mm	Max Temp	Vol
EDFV-1	400x425x600	-20°C	115Ltrs
EDFV-2	500x425x800	-20°C	171Ltrs
EDFV-3	500x580x980	-20°C	285Ltrs
EDFV-4	650x640x1000	-20°C	425Ltrs

Upto-35°C

EDFVSP-1	400x425x600	-35°C	115Ltrs
EDFVSP-2	500x425x800	-35°C	171Ltrs
EDFVSP-3	500x580x980	-35°C	285Ltrs

OPTIONAL:Automatic Voltage Stabilizer 3 Kva

NB:Non use of stabilizer will render the warranty of the equipment invalid

Ultra-Low Freezers Horizontal (chest type)



Up To -80 0 C [in Ac Room]

This freezer specially engineered superior insulation and specially designed refrigeration system- double walled with exterior of MS duty powder coated interior of SS having PUF insulation to minimize heat loss. Capillary controlled. hermetically sealed CPC free refrigeration system to ensure most economical / trouble free and exceptionally quiet performance and provided with castor wheels. Temperature is controlled by PID Micro Processor Based Digital Temperature Controller Cum Indicator [LED] with single compartment upto -80 -°C in AC room having an accuracy of +/-3 °C.

Model No.	Inn. Dimension [W x D x H]	Vol
EDFH-U1	550x370x680mm	110Ltrs
EDFH-U2	800x370x800 mm	170Ltrs
EDFH-U3	1200x370x980 mm	285Ltrs

Same as above but Temperature -40°C To-70°C [in AC room]

EDFH-L1	550x370x680mm	110Ltrs
EDFH-L2	800x370x800 mm	170Ltrs
EDFH-L3	1200x370x980 mm	285Ltrs

OPTIONAL Automatic Voltage Stabilizer 3 Kva

NB:Non use of stabilizer will render the warranty of the equipment invalid

Ultra lowfreezers vertical(Upright)



Upto -80 °C [in AC room]

This freezer specially engineered superior, insulation and specially designed refrigeration system- double walled with exterior of MS with duly powder coated interior of SS having PUF insulation to minimize heat lost Capillary controlled. hermetically sealed CFC free refrigeration system to ensure most economical trouble free and exceptionally quiet performance. The unit is supplied with four no's standard storing trays with castor wheels. Temperature is controlled by PID Micro Processor Based Digital Temperature Controller [LED] up to -80 -C in AC room having an accuracy of +/-3°C.

Model No.	Inn. Dimension [W x D x H]	Vol
EDFV-U1	425x400x680mm	110Ltrs
EDFV-U2	500x425x845mm	170Ltrs
EDFV-U3	580x500x990 mm	285Ltrs

Same as above but Temperature -40°C To-70°C [in AC room]

EDFV-U1	425x400x680mm	110Ltrs
EDFV-U2	500x425x845mm	170Ltrs
EDFV-U3	580x500x990 mm	285Ltrs

Humidity Cabinet



Environmental Test Chamber (Stability Test Chamber)

Double wall construction, inside of SS-304. and outside of M.S duly powder coated with a front door having glass window to inspect the samples inside the chamber. These chambers are designed for environment testing of production samples where both temperature and humidity are to be controlled. Temperature can be controlled from 5° C to 60°C with an accuracy of +/-1 °C. Temperature and Humidity controlled by Digital Temperature Controller Cum Indicator-LED [Dual display] from 40% to 90% with sensitivity of +/-3%. supplied without hygrometer. Power supply -220/230 V.

Inner SS

EHC-90	90 Ltrs	418 x 380 x 580 mm	3
EHC-150	150 Ltrs	418 x 440 x 825 mm	6
EHC-275	275 Ltrs	570 x 505 x 955 mm	10
EHC-350	350 Ltrs	620 x 570 x1050 mm	12
EHC-299	299Ltrs	570 x 500 x105 mm	11

OPTIONAL

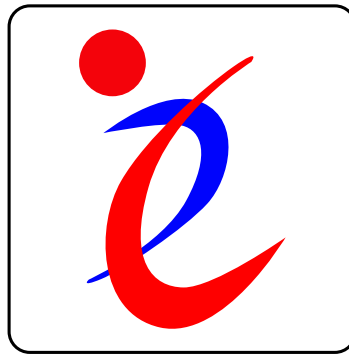
- a) Microprocessor controlled programmable Temperature and Humidity controller upto 99% Humidity +/-5%
- b) Bulls eye microprocessor PIO Temperature and Humidity controller with RS 232 interface to take printout in regular interval without printer
- c) Chamber illumination with the help of Fluorescent lamps
- d) Sterilization of work area with the help of 2 U.V Lamps
- e) Cyclic Timer 0-24 hours for regulating of U.V lamps

Automatic Voltage Stabilizer 1 KVA [for 3 & 6 cft]

Automatic Voltage Stabilizer 3 KVA [for 10 & 12 cft]

Hygrometer (Humidity Indicator). Humidity Range 0 to 100%RH

NB: Non use of stabilizer will render the warranty of the equipment invalid



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Humidity Oven

Double walled construction outer body made of MS duty powder coated and inner S.S-304 with a front door having glass window to inspect the samples inside the chamber. Temp: range having ambient -1-5't to 60°C with an accuracy of +/-1°C. Temperature and Humidity controlled by PID Digital Temperature Controller Cum Indicator-LED [Dual display] from 40% to 90% with sensitivity of +/-3%. Supplied without hygrometer. Power supply -220/ 230 V.

Inner SS

EHO-1SS	90 Ltrs	418 x 380 x 580 mm	3
EHO-2SS	150 Ltrs	418 x 440 x 825 mm	6
EHO-3SS	275 Ltrs	570 x 505 x 955 mm	10
EHO-4SS	350 Ltrs	620 x 570 x 1050 mm	12

OPTIONAL

- a) Microprocessor controlled PID programmable Temperature and Humidity controller upto 99% Humidity +/-5%
- b) Bulls eye microprocessor PID Temperature and Humidity controller with RS 232 inter-lase to take print out in regular interval without printer
- c) Chamber illumination with the help of Fluorescent lamps
- d) Sterilization of work area with the help of 2 U.V Lamps
- e) Cyclic Timer 0-24 hours for regulating of U. V lamps/Flu. lamps
- f) Automatic Voltage Stabilizer 1 KVA [for 3 & 6 Cft] Automatic Voltage Stabilizer 3 KVA (for 10 & 12 Cft)
- g) Hygrometer (Humidity Indicator).

Humidity Range 0 to 100% R.H

De-Humidifier (Environmental Controller)



The refrigerated unit is suitable for de-humidification of packaging cabin/rooms in food, pharma and Chemical industry. The room or cabin should be well closed and occupants should be well closed and occupants should be minimum, the achievable humidity approx. 40%

Model No	Capacity	Workspace	No: of Occupants
EDH-1	1 Ton	70[m3 in room]	5
EDH-2	1.5 Ton	100[m3 in room]	7

OPTIONAL

Automatic Voltage Stabilizer 3 KVA

NB: Nonuse of stabilizer we render the warranty of the equipment is invalid

Seed Germinator



Seed Germinators are useful for seed testing, biological studies, forestry research work, Plant Pathology etc. They are suitable for the simulation of temperature and relative humidity values above freezing point. Chamber illumination with one fluorescent and one ultraviolet tubes along with cyclic timer gives the user the flexibility to simulate day/night conditions inside the chamber. Double walled with inside of Stainless Steel and outside of Mild Steel duly powder coated.

The Instrument having CFC free refrigeration with hermetically sealed compressor, controlled by Bulls-eye Micro-processor humidity & temp controller.

- Humidity range 40% to 90% RH with an accuracy of + -3%
- Menu driven 10 program memory
- User friendly Microprocessor Design/Operation (PID with LCD Display)
- Safety thermostat to prevent overheating.
- Audio Visual alarm warnings of Temp. & RH variation and low water level.
- Capacitance type humidity sensor for direct display of humidity in% RH.
- Centronics interface for keeping hard data of Temp., Humidity, Time & Date.
- Nonvolatile memory for data storage of up to 2500 records.
- RS 232 Inter-faze
- High Voltage safety cut off for unit Protection

Model No	Capacity	No of trays	Inner Dimension
ESG-1	170Ltr	6	500 x 425 x 800 mm
ESG -2	285Ltr	6	500 x 580 x 980 mm

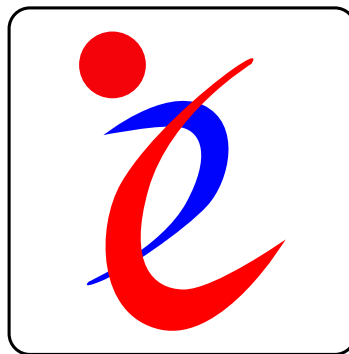
OPTIONAL

- a) Chamber illumination with the help of 2 Fluor Lamps
- b) Sterilisation of work area with 2 U V Lamps (Manually operate)
- c) Cyclic timer 0-24 hours for regulating cyclic illumination
- d) Recorder for recording temp: & humidity (Circular) (ink / inkless)

Automatic Voltage Stabilizer for 2KVA

Automatic Voltage Stabilizer for 3KVA

NB: Non use of stabilizer will render the warranty of the equipment invalid



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Plant Growth chamber



These are designed for study the effects of different environment parameters such as humidity micro-organisms. plants and tissues etc. Apart from various customized industrial and research application. have a variety of usage in R & D laboratories and research centers.

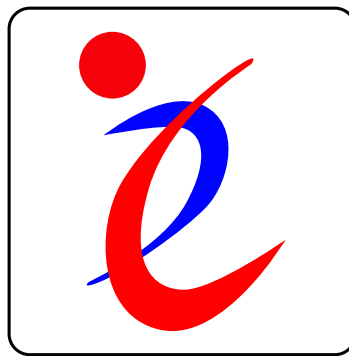
Construction: Inside made of Stainless steel & outside made of mild steel duly powder coated fitted with cooling. heating and lighting arrangement Temperature range 0°C to 60°C +/- 1°C -Temperature can be obtained from 15°C to 60°C +/- 1°C when all lights from two sides and top are 'On' Temperature is controlled by PID electronic Digital Temperature Controller Cum indicator to set two temperature for day and night. Above Growth Chamber is complete with Humidity control from 40% to 90%RH.Light intensity can be adjusted by controller according to requirement and humidity shall be controlled by controller.

Model No.	Inner Dimension	Capacity
EPGC-1	500W x 550D x 1200H mm	300 Ltr
EPGC-2	600W x 600D x 1200H mm	430 Ltr
EPGC-3	1200W x 6000 x 1200H mm	860 Ltr

OPTIONAL

- a) U V Lamp
- b) Recorder for recording temp: 8 humidity (Circular)
- c) Recorder for recording temp: 8 humidity (Strip Chart) will render the warranty of
- d) Automatic Voltage Stabilizer for 2KVA /3 KVA the equipment invalid

NB: Non-use of stabilizer



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Orbital Shaking Incubator



Specially Designed to have a combined advantage of closely controlled incubation/ storage temperature with orbital shaking necessary for many laboratory uses like tissue cultures, fermentation studies , enzyme reactions, controlled purification, ageing tests , growth studies etc., Double wall construction, the exterior is made of MS duly powder coated and interior of SS.The door having glass window (vacuum) makes it possible to inspect specimen without disturbing the temperature and also fitted with a digital timer (1-99 minutes) for shaker .Forced duty air circulator creates positive airflow through the Incubator.

Orbital shaking Incubator with Compressor

Model no	Temp	Shaking speed	Platform size	Capacity
EOSI-1	5°C-60°C	50-250 RPM	360 x 360mm	16 flasks x250 ml

Orbital shaking Incubator without Compressor Ambient

EOSI-2	+5°C-60°C	50-250 RPM	360 x 360mm	16 flasks x250 ml
--------	-----------	------------	-------------	-------------------

Optional:

- Additional platform for each: [100 ml x 25 Nos.. 500ml x 9 Nos.. 1000 x 4 Nos.]
- Chamber illumination with fluorescent tube (2 Nos.)
- Sterilization with ultra violet lamp (2 Nos.) (Manually operate)
- 0-24 hrs Cyclic Timer for illumination
- Automatic Voltage Stabilizer 2KVA

Biological Safety Cabinet



Biological Safety Cabinets [“Class II”] an integral factory assembled system, permitting total disinfections. These are designed to use simultaneous primary biological and chemical containment. The re-circulation of cabinet air through a second HEPA Filter (High Efficiency Particular Air-Mini Pleat type) offers a highest level of cleanliness. Air is drawn through pre-filter and is made to pass through HEPA Filter having efficiency to pertaining all airborne particles of size 0.3 microne and larger.

Using a dynamic balanced motor with blower assembly system [1/5HP-1440 RPM] operates with minimum noise level and the exhaust duct [1/4 HP motor-2880 RPM] Idled On the back bottom 01 the unit. The basic unit made of Mild Steel powder Coating which includes standard accessories like static pressure manometer.

HEPA Filters for cab net [Mini pleat type] Pre-filters. one UV light for the work area. one coach for gas. It is suitable for handling medium to low risk organisms encountered in Research. Investigation. Labs in all branches of Medical. Agriculture. and Pharmaceutical Sciences. The equipment is built with an exhaust system on the top of the unit having 4' dia PVC duct for the provision of connecting the pipe. in addition to normal features of Vertical Laminar Flow class 1 it is provided with following unique features.

- a) Front door provided with UV stabilized polycarbonate sheet in foldable
- b) Filtered Exhaust:** Protects ambient environment, avoids build up. heat. for
- c) Supplementary Air Barrier:** Prevents of contamination through make open.
- d) Built In U.V germicidal light:** facilitates sterilization of working area before and after use , U.V Tube (Philips).
- e) Cleanliness “CLASS II“ with an efficiency of 99.99%

Model No	Size of worktableSS Top	Outer Dimension
EBSC-1	20x 20x20	29 0x 36 0 x 76 0
EBSC-2	30x 20x20	41 0x 36 0x 76 0
EBSC-3	40x 20x20	53 0x 36 0x 76 0
EBSC-4	50x 20x20	65 0x 36 0x 76 0
EBSC-5	60x 20x20	77 0x 36 0x 76 0

NB: In accordance to its safety performance necessities and stipulations. the Sc Safety Cabinet (Class II) can be constructed in the following types

Type A: 70% air (approx) re circulating & 30% exhausting

Type B1: 30% air (approx) re circulating & 70% exhausting

Type B2: 100% exhausting and no re circulation

Bio Safety cabinet (Class I) can be supplied

OPTIONAL

- Virus burn out chamber
- Dwyer magnehelic gauge
- Glass Bead Sterilizer 2 0 dia 4 0 depth
- Infra-red activated sterilizer can be supplied
- For Type B-2, Carbon HEPA Filter (for filtering air prior to discharge the outside area)



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Control Panels



AHU Air handling Units Panels



AMF Panel & DG
Synchronization Panels



Automatic Power Factor Correction
Panels - APFC Panels



Main Lighting Control Panels

Control Panels



PLC - Automation Control Panels



Power Distribution Panel Boards



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Fume Cupboard Portable type

[Fume Exhaust Hood] made with Full F R P

Provide a dean, well-ventilated, safe work area to protect personnel from chemical fumes. Portable fume hoods feature one-piece. moulded F R P construction. A clear Poly carbonate foldable door can be maintained in the open. closed. or intermediate position. Closed panel leaves a gap at the bottom for continuous air flow. bench top model

Model No	Working Area
EFH-P	2Lx 2B



Fume Cupboard

These are designed to exhaust toxic and other harmful vapours for protecting laboratory personnel equipments. The main body of the Fume Cupboard is made of good quality Plywood with water & chemical proof Poly Urethane coated and inside of the cupboard is made from FRP lining, which is acid or alkali resistant fitted with a sliding door made of U V stabilised polycarbonate sheet. moves vertically up and down with counter balanced weight system Fluorescent light is provided inside the chamber for easy working. One FRP zinc of small size. water tap and gas cock are also provided inside the chamber. Working top of the Fume Cupboard is of Granite or acid proof tiles A major blower exhaust system (Blower and blower cover is made with FRP) fitted on the top of the working area, which generates negative pressure within the hood extracting the contaminated air from the work area and expelling into the atmosphere and preventing the fume escaping into the room For this purpose there is provided a provision for connecting 4" dia PVC pipe on the top of the instrument Beneath the working area, fitted 3 drawers on one side and a closed storage area with a provision for locking system on the other side of the unit.

Model No.	Working Table L x B	Other Size
EFH-1	3' X 2'	38X26 X72 □
EFH-2	4' X 2'	50 X26 X72 □
EFH-3	5' X 2'	62 X26 X72 □
EFH-4	6' X 2'	74X26 X72 □

Fume Cupboard without Bottom Part(Table Top)

Model No.	Working Table L x B	Other Size
EFH-1T	3' X 2'	38X26 X48 □
EFH-2T	4' X 2'	50 X26 X48 □
EFH-3T	5' X 2'	62 X26 X48 □
EFH-4T	6' X 2'	74X26 X48 □

Optional:

- MS fabricated unit with auto painted [instead of marine plywood] can be supplied on specific order.
- Fabrication with special dimensions can be supplied on specific order.
- Stain less Steel fabricated unit can be fabricated at an extra cost

HOT AIR OVEN



Double walled Chamber Inner constructed out of Stainless Steel and outer Mild Steel Powder coated/ epoxy painted in beautiful colors. 2.5” thick glass wool insulation, temperature controlled by Microprocessor based digital temperature controller cum indicator with suitable PT100 Sensor. Working temperature +5° above ambient to 250°C with an accuracy of ±1°C. Air ventilation provided on two sides. With option of dynamically balanced air circulation fan to maintain even heat within the chamber. The control panel has Power On /Off switch with indicator lamp for heating and Rotary selector switch. The equipment works on single phase power 240V AC 50 Hz.

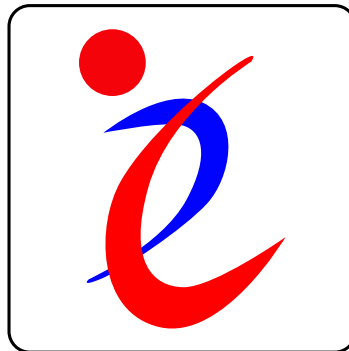
The equipment is supplied with adjustable wire mesh trays as standard and Perforated SS trays as optional.

Standard Sizes:-

Model	Size	Trays	Power W	Cap. Ltrs
EOMS-1	300x300x300mm	1	1000	28
EOMS-2	350x350x350mm	2	1000	45
EOMS-3	450x450x450mm	2	1500	95
EOMS-4	450x450x600mm	3	1500	125
EOMS-5	600x600x600mm	3	2000	225
EOMS-6	600x600x900mm	3	2500	325

OPTIONAL

- Safety blind Controller
- Air Circulating Fan
- Stainless Steel Perforated Trays
- Digital Timer
- Chamber Validation/ calibration
- Imported Microprocessor based PID Controller
- Digital Microprocessor based controller with RS-232 & PC inter phase
- Any other sizes can be supplied on demand
- Higher temperature accuracy models can be supplied on demand
- Fully Stainless steel model available on demand.



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Industrial Oven



Industrial Oven is triple walled outer wall made of heavy gauge MS sheet with beautifully painted and second & third wall is made of Galvanised Steel sheet & insulated with mineral wool. temperature range from 50oC to 250oC with an accuracy of +/- 3oC. controlled by Microprocessor based Digital Temperature Controller with forced air circulation fan.

Industrial Oven

Model No.	Inn. Chamber size L x B x H
EIDO-1	30 x 30 x 20
EIDO-2	30 x 30 x 30
EIDO-3	30 x 40 x 30
EIDO-4	30 x 50 x 50
EIDO-5	30 x 50 x 70
EIDO-6	30 x 60 x 60
EIDO-7	30 x 60 x 80
EIDO-8	40 x 60 x 70
EIDO-9	50 x 60 x 80

OPTIONAL

Special size can be fabricated at an extra cost Double side door can be provided at an extra cost Stainless steel chamber can be fabricated at an extra cost

Laminar Air Flow Cabinet Horizontal



Construction:

The cabinets are fabricated out of mild steel duly epoxy/ Powder coated. The work table is made of S. S 304/316. All joints are sealed with solstice sealant. Side panels are provided of thick transparent acrylic sheets/ Glass. The unit is fitted with pre-filter and the ambient air is made to pass through highly effective HEPA (High Efficiency Particular Air) filter having efficiency rating as high as 99.997% with hot, DOP, thus retaining all air-borne particles of size : 0.3 micron and larger.

The blower and motor assembly is statically and dynamically balanced. Blowers are spring mounted to minimize vibration. The working area is illuminated by diffused fluorescent lightings fitted to the unit. The pressure is measured by static pressure manometer, fitted with one No. U.V Lamp, Gas cock, and Glass bead sterilizer as optional. Height of the working table provides comfortable "Sit Down" working position for the operation to work on Fitted with castor wheel for easy mobility and screw stoppers for aligning the unit.

Power Supply 220/230 volts AC.50 Hz

Product Specification:

HEPA Efficiency	99.997% at 0.3 microns with DOP test
Pre-filter	Washable with an arresstance up to 90% at 5 microns
Air Velocity	90FPM +-20%
Sound Level	60-65 decibels
Illumination	900 - 1300 Lux
Cleanliness	Class 100

Model No.	Size of HEPA Filter	Outer dimension W x D x H
ELF-1SS	2'x2'	28" x 40" x 60½"
ELF-2SS	3'x 2'	40" x 40" x 60½"
ELF-3SS	4'x 2'	52" x 40" x 60½"
ELF-4SS	6'x 2'	79" x 40" x 60½"

Model. No	Size of HEPA Filter	Outer dimension W x D x H
ELFV-1SS	2'x2'	28" x 28" x 80"
ELFV-2SS	3'x 2'	40" x 28" x 80"
ELFV-3SS	4'x 2'	52" x 28" x 80"
ELFV-4SS	6'x 2'	76" x 28" x 80"

- ULPA Filter can be supplied on specific order
- HEPA system in an area or room can be done against specific order
- Dwyer magnehelic gauge can be fitted instead of Inclined Manometer
- Glass Bead Sterilizer 2' dia 4' depth can be supplied Infra-red activated sterilizer can be supplied



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Biological Safety Cabinet



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Using a dynamic balanced motor with blower assembly system [1/5HP-1440 RPM] operates with minimum noise level and the exhaust duct [1/4 HP motor-2880 RPM] Idled On the back bottom 01 the unit. The basic unit made of Mild Steel powder Coating which includes standard accessories like static pressure manometer.

HEPA Filters for cab net [Mini pleat type] Pre-filters. one UV light for the work area. one coach for gas. It is suitable for handling medium to low risk organisms encountered in Research. Investigation. Labs in all branches of Medical. Agriculture. and Pharmaceutical Sciences. The equipment is built with an exhaust system on the top of the unit having 4' dia PVC duct for the provision of connecting the pipe. in addition to normal features of Vertical Laminar Flow class 1 it is provided with following unique features.

- a) Front door provided with UV stabilized polycarbonate sheet in foldable
- b) Filtered Exhaust:** Protects ambient environment, avoids build up. heat. for
- c) Supplementary Air Barrier:** Prevents of contamination through make open.
- d) Built In U.V germicidal light:** facilitates sterilization of working area before and after use , U.V Tube (Philips).
- e) Cleanliness “CLASS II“ with an efficiency of 99.99%

Model No	Size of worktableSS Top	Outer Dimension
EBSC-1	20x 20x20	29 0x 36 0 x 76 0
EBSC-2	30x 20x20	41 0x 36 0x 76 0
EBSC-3	40x 20x20	53 0x 36 0x 76 0
EBSC-4	50x 20x20	65 0x 36 0x 76 0
EBSC-5	60x 20x20	77 0x 36 0x 76 0

NB: In accordance to its safety performance necessities and stipulations. the Sc Safety Cabinet (Class II) can be constructed in the following types

Type A: 70% air (approx) re circulating & 30% exhausting

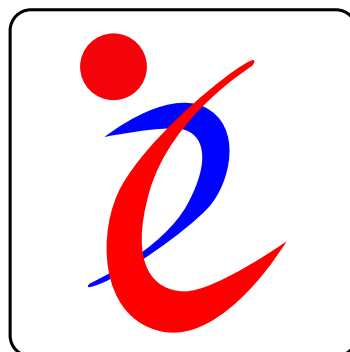
Type B1: 30% air (approx) re circulating & 70% exhausting

Type B2: 100% exhausting and no re circulation

Bio Safety cabinet (Class I) can be supplied

OPTIONAL

- Virus burn out chamber
- Dwyer magnehelic gauge
- Glass Bead Sterilizer 2 0 dia 4 0 depth
- Infra-red activated sterilizer can be supplied
- For Type B-2, Carbon HEPA Filter (for filtering air prior to discharge the outside area)



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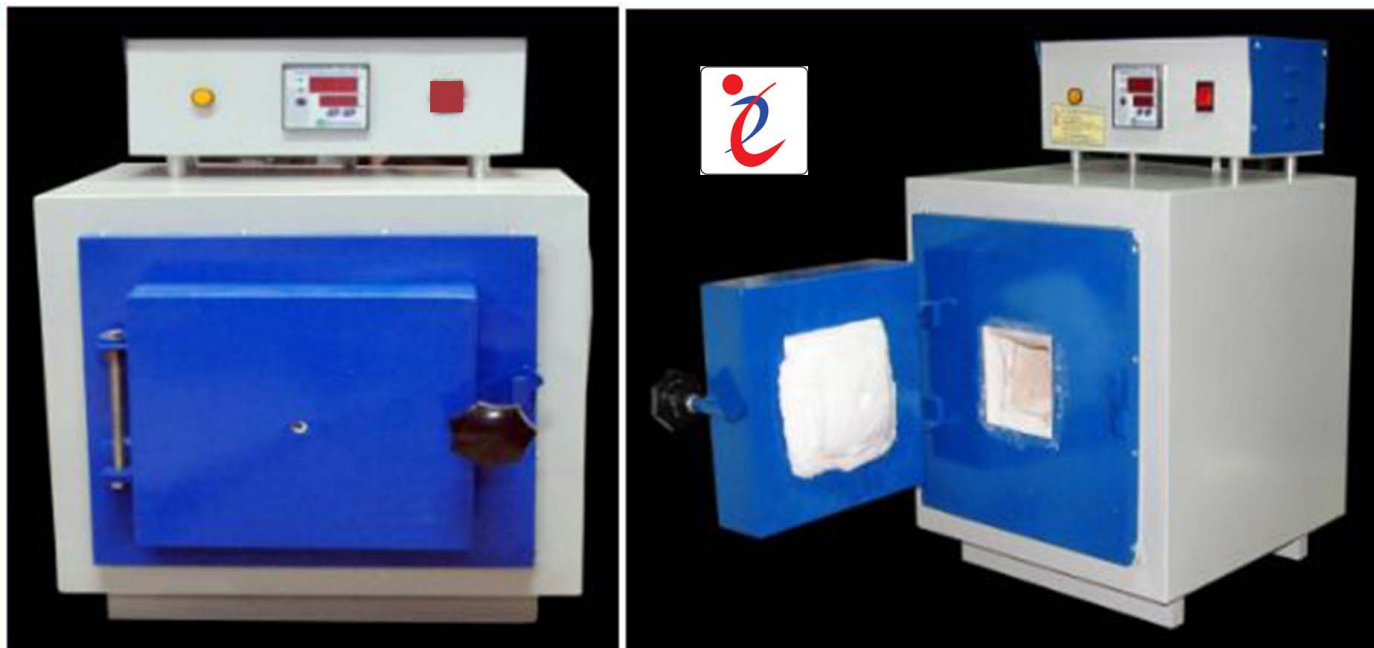


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MUFFLE FURNACE

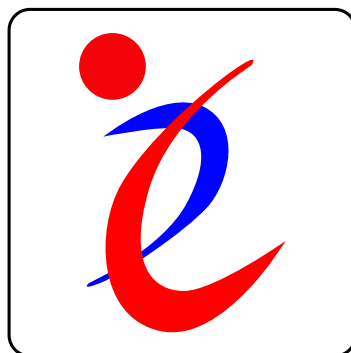


Rectangular electric furnace with light weight and fast heating system, the body is constructed out of Mild steel sheet duly powder coated / Epoxy painted in beautiful attractive clours. With maximum temperature of 900°C and working temperature of 600°C,with ceramic wool insulation, controlled by digital temperature controller cum indicator, and suitable thermocouple. The control panel consists of on of switch, indicator lamps suitable to work on single phase 240V AC 50 Hz or 440 V AC 3 Phase

Model	size	Power KW
EMF-1	100x100x225mm	2
EMF-2	125x125x250mm	2.5
EMF-3	150x150x225mm	3
EMF-4	150x150x300mm	3.5
EMF-5	225x225x300mm	4.0

OPTIONAL:-

- Safety blind Controller
- Digital Timer
- Chamber Validation/ calibration
- Door safety switch stops power to heating elements when door is opened.
- Imported Microprocessor based PID Controller
- Digital Microprocessor based controller with RS-232 & PC inter phase
- Any other sizes can be supplied on demand
- Higher temperature accuracy models can be supplied on demand
- Fully Stainless steel model available on demand.



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High Temperature Programmable Muffle Furnace 1400°C

The unit is specially designed to meet the requirements of High Temperature the casing is made of M.S. reinforced with iron angles duty painted. Chamber made of Ceramic Zirconium Board and elements are placed vertically in the Chamber. Heating is done by Silicon Carbide Rods duty controlled by Microprocessor based PID controller with Thyristor power pack with LED display. It saves energy upto 30% with easily replaceable Carbide Rods. These Furnaces have outstanding Temperature reliably and have large surface radiation ratio to enhance thermal efficiency and power consumption. Control panel is filled with Programmable Digital Temperature Indicator Cum Controller separately having Ammeter and Voltmeter etc. Working temperature 1300°C operatable in 220 Volts Single Phase AC supply with Therister.

Model No.	Chamber size
EMF-1S-SP	4" x 4" x 9"
EMF-2S-SP	5" x 5" x 10"
EMF-3S-SP	6" x 6" x 9"
EMF-4S-SP	6" x 6" x 12"

NB: Special sizes can be fabricated

Cabinet Tray Drier

Double wall construction outer made of Mild coated. The inner chamber made of Mild painted knish (heat resistant) with thick glass and exhaust for removal of moisturizer. The by Micro Processor Based Digital Temp Indicator (LED) from ambient +5°C to 250°C having an accuracy of $\pm 1^\circ\text{C}$. The unit is equipped with 1/4HP support fan for getting uniform temperature in and 12 Nos. non-perforated Aluminium trays (size 320 x 160 x 1.25 W x D x H). The door has Limit Switch to disconnect when the door is opened.

Model No.	Outer Size (W x D x H)	Inner Size (W x D x H)	Rating
ECTD-1	975 x 650 x 1150mm	830 x 550 x 900mm	2KW

NB: Different types and sizes of industrial driers can be supplied on specific order



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Rotary Shaker



These shakers are ideal for mixing and development of culture, chemicals and pathological work etc. The unit is fabricated from heavy mild steel duly powder coated with continuous duty motor and controllable shaking speed from 50 to 250Rpm having different sizes of platforms with rubber disks / Lotus spring for holding flasks. Rotary movement -20mmDia

Model No.	Platform size	Capacity
ERS-1	300 x300 mm	250ml x 9nos
	Addition platform	100ml x 16nos
ERS-2	450 x 450mm	250 x 16nos
	Addition platform	100ml x 36nos
ERS-3	600 x 600mm	250ml x 36nos
	Addition platform	100ml x 64nos
ERS-4	900 x 900mm	250ml x64nos
	Addition platform	100ml x100nos

OPTIONL

- Digital Rpm display from 50 to 250Rpm with timer (1/99 min)
- 0-24 hrs weekly cyclic timer
- SS lotus clamps for holding flaks (instead of rubber disk)

Fermentor Mechanical Stirred Stainless Steel

This fermentor is widely used in microbiology. pharma. DNA proteins, Cell Cultural, Bio Fenilizer. Vaccine. Bio Pesticide. Bio Fuels or customer application and requirement. Its an ideal instrument for exact fermenting experimentation. It can be applied to the selection of culture medium component and dosage, optimising of fermenting technology parameter and test of fermentation techniques of bacteria seeds. Because the experiment result approaches that of the production scale. it is quite easy to scale up the fermentation process through the large-scale experiment. This type fermenter is generally applied to various fermenting process.

Vessel Material: S S 304 stainless steel

Driver: stirrer from top with 30Orpm

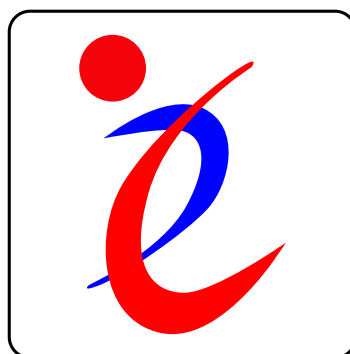
Sterilization: to sterilized with steam

Stead Generator: Suitable to Fermentor Capacity Steam Generator

Air Compressor

The compressor shall be suitable to work on 230NAC single phase. The compressor is to be run by suitable motor provided with starter.

Model No	EF-10	EF-15	EF-25	EF-50	EF-100	EF-200	EF-300
Capacity	10Ltrs	15Ltrs	25Ltrs	50Ltrs	100Ltrs	200Ltrs	300Ltrs



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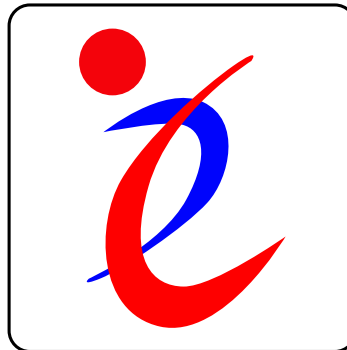
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Air Curtain

(Air Doors)

Produces a high-speed air barrier. dividing areas into two independent temperature zones. levels of interior air conditioning/ heating are maintained. increasing comfort and saving energy.

Model No.	Door width
EAC-1	2ft
EAC-2	3ft
EAC-3	4ft
EAC-4	5ft
EAC-5	6ft



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Constant Temperature Water Bath

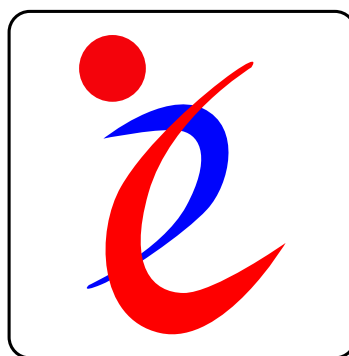
(High Precision Water Bath)

Double wall Inner made of stainless steel; outer chamber made of M. S. duly powder coated. Gap between the two walls filled with glass wool to maintain the temperature. Temperature is controlled by Microprocessor based Digital temperature controller Cum Indicator (LED) controls temperature from ambient +5°C to 80°C with an accuracy 01 +/-0.5 °C and without thermometer. To get uniform temperature in the water bath, a speed controllable stirrer is fitted, and toughened glass window is provided in front of the unit for the visibility of samples.

OPTIONAL

Circulation Pump (Instead of stirrer) can be added at an extra cost

Model No.	Inn. Dimension [W x D x H]	Volume
ECTB-1	350mm x250mm x200mm	18Ltrs
ECTB-2	400mm x300mm x250mm	32Ltrs
ECTB-3	450mm x350mm x300mm	50Ltrs



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(Borosilicate Single Distillation Basic model) with Quartz Heater



TECHNICAL SPECIFICATIONS:

CAT.NO:	EBSD-1.5	EBSD-4	EBSD-8
Output	1.5 litres/hr, single distilled	4 litres/hr, single distilled	8 litres/hr, single distilled
pH	5.0 - 6.5	5.0 - 6.5	5.0 - 6.5
Conductivity, μScm^{-1}	1.5-2.0	1.5-2.0	1.5-2.0
Temperature	30 - 40°C	30 - 40°C	30 - 40°C
Pyrogen content	Pyrogen free	Pyrogen free	Pyrogen free
Water supply	2 litre/min, 3 - 100psi, (20-700kPa)	3 litre/min, 3 - 100psi, (20-700kPa)	6 litre/min, 3 - 100psi, (20-700kPa)
Electricity supply	220or240V,50-60Hz, single phase	220or240V,50-60Hz, single phase	220or240V,50-60Hz, double phase
Power requirement	1.5kW	3kW	6kW

The above output result can be achieved by using treated water as a boiler feed.

(Borosilicate Single Distillation) with Metal Heater

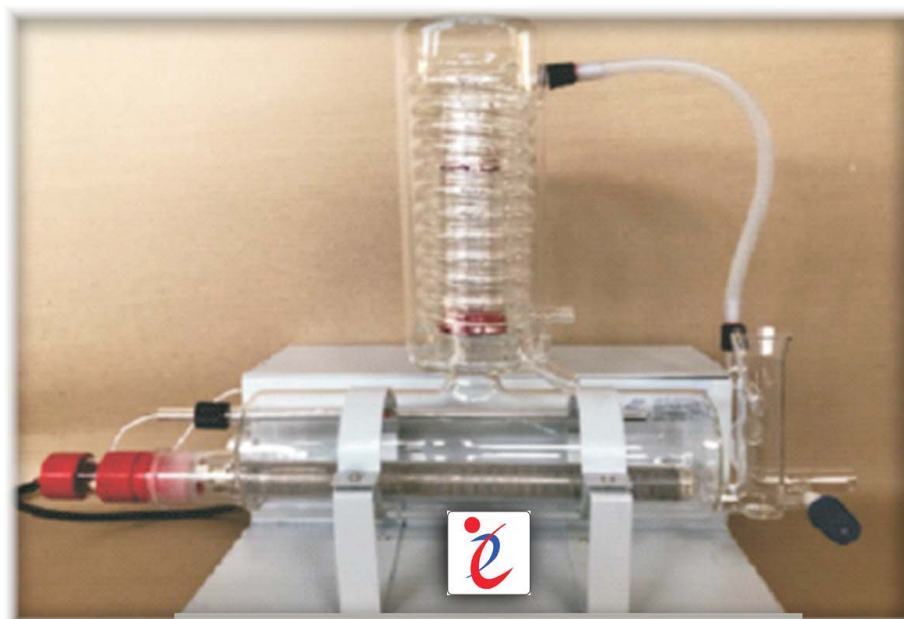


TECHNICAL SPECIFICATIONS:

Output	4 litres/hr, single distilled
pH	5.0-6.5
Conductivity, μScm^{-1}	3.0-4.0
Resistivity, mOhm-cm	0.25-0.3
Temperature	25-35°C
Pyrogen content*	Pyrogen free
Water supply	1 litre/min,
Electricity supply	220 or 240V, 50-60Hz, single phase
Power requirement	3kW
Dimensions, (w x dxh)	500 x 150 x 450mm

The above output result can be achieved by using treated water as a boiler feed.

(Borosilicate Boiler & Borosilicate Condenser & Quartz Heater with built in Triple Safety Feature).

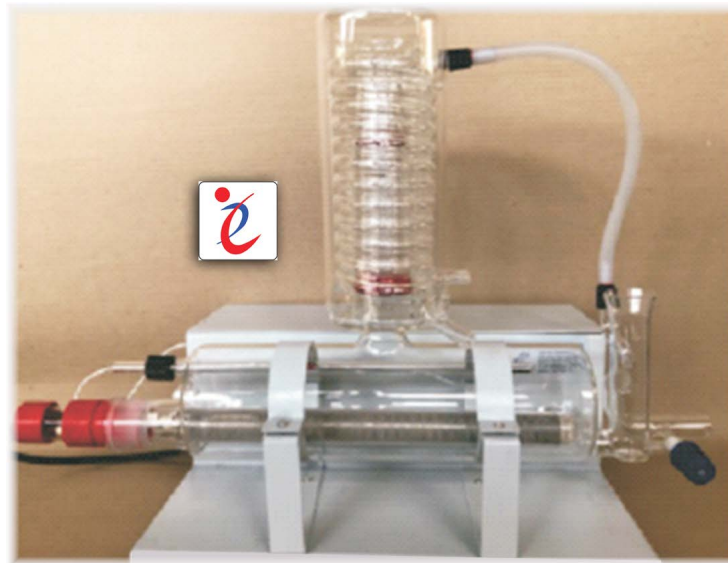


TECHNICAL SPECIFICATIONS:

CAT. NO:	EBS- 2	EBS- 4	EBS- 8
Output	2 litres/hr, single distilled	4 litres/hr, single distilled	8 litres/hr, single distilled
Boiler	Borosilicate	Borosilicate	Borosilicate
Condensor	Borosilicate	Borosilicate	Borosilicate
pH	5.5 - 6.0	5.5 - 6.0	5.5 - 6.0
Conductivity, μScm^{-1}	1.0-2.0	1.0-2.0	1.0-2.0
Temperature	30 - 40°C	30 - 40°C	30 - 40°C
Pyrogen content *	Pyrogen free	Pyrogen free	Pyrogen free
Water supply	2 litre/min,	2 litre/min,	4 litre/min,
Electricity supply	220 or 240V, 50 -60Hz, Single phase	220 or 240V, 50 -60Hz, single phase	220 or 240V, 50 -60Hz, double phase
Power requirement	1.5kW	3kW	6kW

The above output result can be achieved by using treated water as a boiler feed.

(Single, Quartz Boiler & Borosilicate Condenser & Quartz Heater with built in triple safety feature).

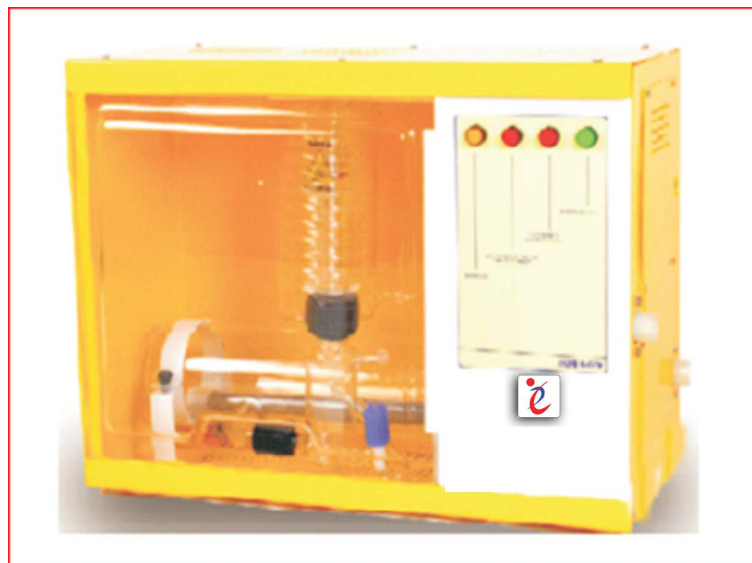


TECHNICAL SPECIFICATIONS:

CAT.NO:	ESQ-2	ESQ-4	ESQ-8
Output	2 litres/hr, single distilled	4 litres/hr, single distilled	8 litres/hr, single distilled
Boiler	Quartz	Quartz	Quartz
Condensor	Borosilicate	Borosilicate	Borosilicate
pH	5.5 - 6.0	5.5 - 6.0	5.5 - 6.0
Conductivity, μScm^{-1}	1.0-2.0	1.0-2.0	1.0-2.0
Temperature	30 - 40°C	30 - 40°C	30 - 40°C
Pyrogen content *	Pyrogen free	Pyrogen free	Pyrogen free
Water supply	2 litre/min	2 litre/min	4 litre/min
Electricity supply	220 or 240V, 50 -60Hz, single phase	220 or 240V, 50 -60Hz, double phase	220 or 240V, 50 -60Hz, double phase
Power requirement	1.5kW	3kW	6kW

The above output result can be achieved by using treated water as a boiler feed.

Borosilicate Single distillation. **With built in triple safety features.**

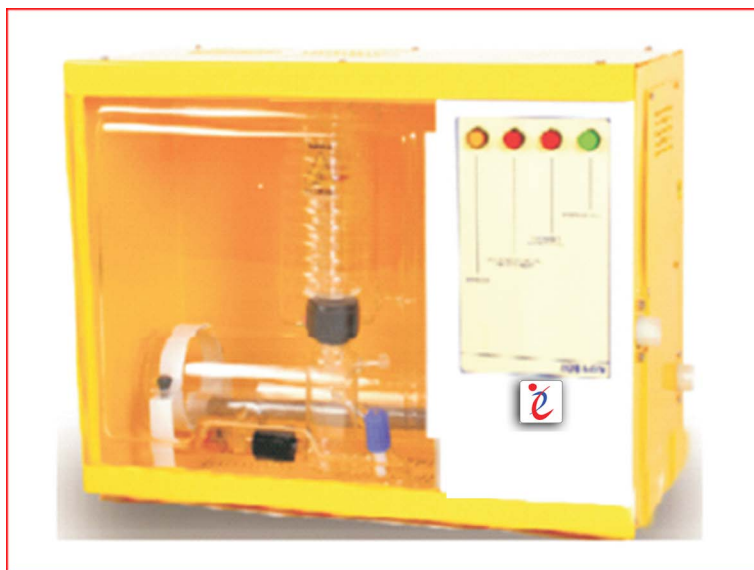


TECHNICAL SPECIFICATIONS:

CAT.NO:	EAB- 2S	EAB-4S	EAB-8S
Output	2 litres/hr, single distilled	4 litres/hr, single distilled	8 litres/hr, single distilled
Boiler	Borosilicate	Borosilicate	Borosilicate
Condenser	Borosilicate	Borosilicate	Borosilicate
pH	5.5 - 6.0	5.5 - 6.0	5.5 - 6.0
Conductivity, $\mu\text{Scm-1}$	1.0-2.0	1.0-2.0	1.0-2.0
Temperature	30 - 40°C	30 - 40°C	30 - 40°C
Pyrogen content *	Pyrogen free	Pyrogen free	Pyrogen free
Water supply	2 litre/min	2 litre/min	4 litre/min
Electricity supply	220 or 240V, 50-60Hz, single phase	220 or 240V, 50-60Hz, single phase	220 or 240V, 50-60Hz, double phase
Power requirement	1.5kW	3kW	6Kw

The above output result can be achieved by using treated water as a boiler feed.

Single distillation with Quartz Boiler and Borosilicate Condenser With built in triple safety features.

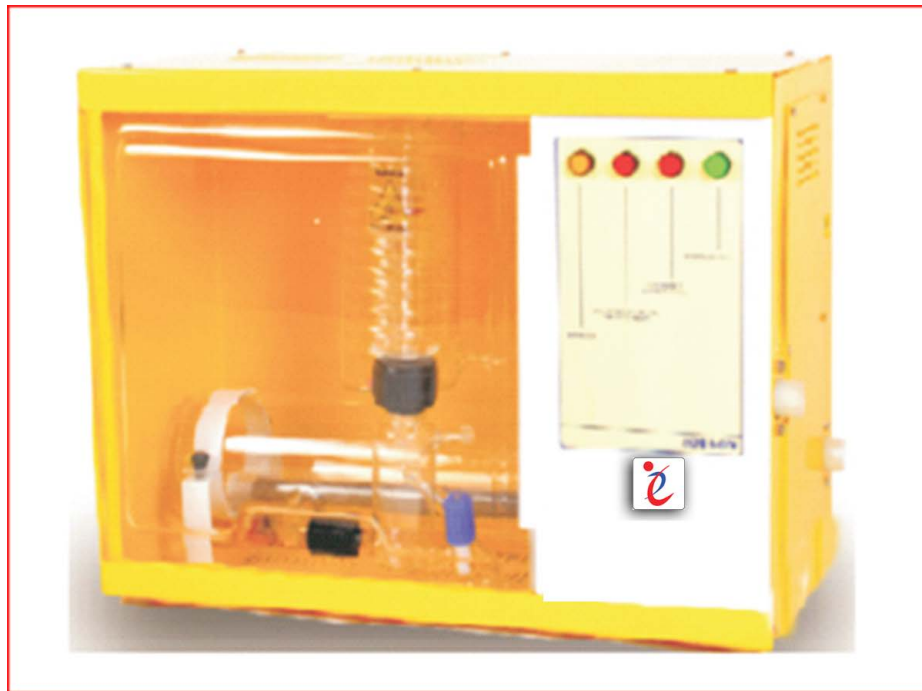


TECHNICAL SPECIFICATIONS:

CAT.NO:	EAQ-2S-QB	EAQ-4S-QB	EAQ-8S-QB
Output	2 litres/hr, single distilled	4 litres/hr, single distilled	8 litres/hr, single distilled
Boiler	Quartz	Quartz	Quartz
Condenser	Borosilicate	Borosilicate	Borosilicate
Ph	5.5 - 6.0	5.5 - 6.0	5.5 - 6.0
Conductivity, μScm^{-1}	1.0-2.0	1.0-2.0	1.0-2.0
Temperature	30 - 40°C	30 - 40°C	30 - 40°C
Pyrogen content *	Pyrogen free	Pyrogen free	Pyrogen free
Water supply	2 litre/min	2 litre/min	4 litre/min
Electricity supply	220 or 240V, 50-60Hz, single phase	220 or 240V, 50-60Hz, single phase	220 or 240V, 50-60Hz, double phase
Power requirement	1.5kW	3kW	6kW

The above output result can be achieved by using treated water as a boiler feed.

Quartz Single Distillation. With Built in Triple Safety Features



TECHNICAL SPECIFICATIONS:

CAT.NO:	EAQ-2SQ	EAQ-4SQ	EAQ-8SQ
Output	2 litres/hr, single distilled	4 litres/hr, single distilled	8 litres/hr, single distilled
Boiler	Quartz	Quartz	Quartz
Condenser	Quartz	Quartz	Quartz
pH	5.0-8.0	5.0-8.0	5.0-8.0
Conductivity, μScm^{-1}	0.5-0.8	0.5-0.8	0.5-0.8
Temperature	30 - 40°C	30 - 40°C	30 - 40°C
Pyrogen content *	Pyrogen free	Pyrogen free	Pyrogen free
Water supply	2 litre/min	2 litre/min	4 litre/min
Electricity supply	220 or 240V, 50-60Hz, single phase	220 or 240V, 50-60Hz, single phase	220 or 240V, 50-60Hz, double phase
Power requirement	1.5kW	3kW	6kW

The above output result can be achieved by using treated water as a boiler feed.

QUARTZ SINGLE DISTILLATION (Quartz Boiler & Borosilicate Condenser)

EQSD PANEL SERIES



TECHNICAL SPECIFICATIONS:

TYPE	OUTPUT CAPACITY	POWER REQUIRED	COOLING WATER FEED	BIOLOGICAL PURITY	RH/PH	CONDUCTIVITY	DISTILLATE TEMPERATURE
EQSDB1	1.0	220-240V 1kw Single Phase	30Liters/ hr (approx)	PYROGE FREE	6.0- 7.0	1.5-2.0	60° ± 5° c
EQSDB2	2.0	220-240V 1.5kw Single Phase	40Liters/hr (approx)	PYROGEN FREE	6.0- 7.0	1.5-2.0	60° ± 5° c
EQSDB2.5	2.5	220-240V 1.75kw Single Phase	50Liters/hr (approx)	PYROGEN FREE	6.0- 7.0	1.5-2.0	60° ± 5° c
EQSDB3	3.0	220-240V 2kw Single Phase	55Liters/ hr (approx)	PYROGEN FREE	6.0- 7.0	1.5-2.0	60° ± 5° c
EQSDB4	4.0	220-240V 3kw Single Phase	60Liters/ hr (approx)	PYROGEN FREE	6.0- 7.0	1.5-2.0	60° ± 5° c
EQSDB5	5.0	220-240V 4kw Double Phase	65Liters/hr (approx)	PYROGEN FREE	6.0- 7.0	1.5-2.0	60° ± 5° c
EQSDB10	10.0	220-240V 8kw Double Phase	120Liters/hr (approx)	PYROGEN FREE	6.0- 7.0	1.5-2.0	60° ± 5° c

The above output result can be achieved by using treated water as a boiler feed.

QUARTZ SINGLE DISTILLATION (Quartz Boiler & Quartz Condenser) EQSD PANEL SERIES (Vertical model).



TECHNICAL SPECIFICATIONS:

TYPE	OUTPUT CAPACITY	POWER REQUIRED	COOLING WATER FEED	BIOLOGICAL PURITY	RH/PH	CONDUCTIVITY	DISTILLATE TEMPERATURE
EQSDQ1	1.0	220-240V 1kw Single Phase	30Liters/hr (approx)	PYROGEN FREE	6.0-7.0	1.5-2.0	60° ± 5° c
EQSDQ2	2.0	220-240V 1.5kw Single Phase	40Liters/hr (approx)	PYROGEN FREE	6.0-7.0	1.5-2.0	60° ± 5° c
EQSDQ2.5	2.5	220-240V 1.75kw Single Phase	50Liters/hr (approx)	PYROGEN FREE	6.0-7.0	1.5-2.0	60° ± 5° c
EQSDQ3	3.0	220-240V 2kw Single Phase	55Liters/hr (approx)	PYROGEN FREE	6.0-7.0	1.5-2.0	60° ± 5° c
EQSDQ4	4.0	220-240V 3kw Single Phase	60Liters/hr (approx)	PYROGEN FREE	6.0-7.0	1.5-2.0	60° ± 5° c
EQSDQ5	5.0	220-240V 4kw Double Phase	65Liters/hr (approx)	PYROGEN FREE	6.0-7.0	1.5-2.0	60° ± 5° c
EQSDQ10	10.0	220-240V 8kw Double Phase	120Liters/hr (approx)	PYROGEN FREE	6.0-7.0	1.5-2.0	60° ± 5° c

The above output result can be achieved by using treated water as a boiler feed.

GLASS DOUBLE WATER STILLS **(Borosilicate Double Distillation Basic model) with Quartz Heater**



TECHNICAL SPECIFICATIONS:

CAT.NO:	EPTI-D-1.5	EPTI-D-4	EPTI-D-8
Output	1.5 litres/hr, Double distilled	4 litres/ hr, Double distilled	8 litres/hr, Double distilled
Boiler	Borosilicate	Borosilicate	Borosilicate
Condensor	Borosilicate	Borosilicate	Borosilicate
pH	5.0 - 6.5	5.0 - 6.5	5.0 - 6.5
Conductivity, μScm^{-1}	0.8-1.2	0.8-1.2	0.8-1.2
Temperature	30 - 40°C	30 - 40°C	30 - 40°C
Pyrogen content *	Pyrogen free	Pyrogen free	Pyrogen free
Water supply	60 litre/hr	90 litre/hr	120 litre/hr
Powerrequirement	3Kw	6kW	12kW

The above output result can be achieved by using treated water as a boilerfeed.

(Double, Borosilicate Boiler & Borosilicate Condenser & Quartz Heater with built in triple safety feature).



TECHNICAL SPECIFICATIONS:

CAT.NO:	EBB-2	EBB- 4	EBB-8
Output	2 litres/hr, Double distilled	4 litres/hr, Double distilled	8 litres/hr, Double distilled
Boiler	Borosilicate	Borosilicate	Borosilicate
Condensor	Borosilicate	Borosilicate	Borosilicate
pH	6.0-7.0	6.0-7.0	
Conductivity, μScm^{-1}	0.8-1.0	0.8-1.0	0.8-1.0
Temperature	30 - 40°C	30 - 40°C	30 - 40°C
Pyrogen content *	Pyrogen free	Pyrogen free	Pyrogen free
Water supply	1.5 litre/min x 2	2 litre/min x 2 Input	4 litre/min x 2 Input
Electricity supply	220 or 240V,50-60Hz, single phase	220 or 240V,50-60Hz, single phase	220 or 240V,50-60Hz, single phase
Power requirement	3kW	6kW	12kW

The above output result can be achieved by using treated water as a boiler feed.

(Double, Quartz Boiler & Borosilicate Condenser & Quartz Heater with builtin tripl safety feature).



TECHNICAL SPECIFICATIONS:

CAT.NO:	EQQ-2	EQQ-4	EQQ-8
Output	2 litres/hr, Double distilled	4 litres/hr, Double distilled	8 litres/hr, Double distilled
Boiler	Quartz	Quartz	Quartz
Condensor	Borosilicate	Borosilicate	Borosilicate
pH	6.0-7.0	6.0-7.0	
Conductivity, μScm^{-1}	0.8-1.0	0.8-1.0	0.8-1.0
Temperature	30 - 40°C	30 - 40°C	30 - 40°C
Pyrogen content *	Pyrogen free	Pyrogen free	Pyrogen free
Water supply	1.5 litre/min x 2	2 litre/min x 2 Input	4 litre/min x 2 Input
Electricity supply	220 or 240V, 50 -60Hz, single phase	220 or 240V, 50 -60Hz, double phase	220 or 240V, 50 -60Hz, three phase
Power requirement	3kW	6kW	12kW

The above output result can be achieved by using treated water as a boiler feed.

(Double Quartz Boiler & Quartz Condenser & Quartz Heater with built in triple safety feature).



TECHNICAL SPECIFICATIONS:

CAT.NO:	EP-DQ-STILL 2	EP-DQ-STILL 4	EP-DQ-STILL 8
Output	2 litres/hr, Double distilled	4 litres/hr, Double distilled	8 litres/hr, Double distilled
Boiler	QUARTZ	QUARTZ	QUARTZ
Condenser	QUARTZ	QUARTZ	QUARTZ
pH	6.9-7.0	6.9-7.0	
Conductivity, μScm^{-1}	0.5-0.9	0.5-0.9	0.5-0.9
Temperature	50-60°C	50-60°C	50-60°C
Pyrogen content *	Pyrogen free	Pyrogen free	Pyrogen free
Water supply	2 litre/min x 2 Input	2 litre/min x 2 Input	4 litre/min x 2 Input
Electricity supply	220 or 240V, 50 -60Hz, single phase	220 or 240V, 50 -60Hz, double phase	220 or 240V, 50 -60Hz, three phase
Power requirement	3kW	6kW	12kW

The above output result can be achieved by using treated water as a boiler feed.

Borosilicate Double distillation.
With built in triple safety features.



TECHNICAL SPECIFICATIONS:

CAT.NO:	ECS-2D	ECS- 4D	ECS- 8D
Output	2 litres/hr, Double distilled	4 litres/hr, double distilled	8 litres/hr, double distilled
Boiler	Borosilicate	Borosilicate	Borosilicate
Condenser	Borosilicate	Borosilicate	Borosilicate
pH	6.0-7.0	6.0-7.0	
Conductivity, μScm^{-1}	0.8-1.0	0.8-1.0	0.8-1.0
Temperature	30 - 40°C	30 - 40°C	30 - 40°C
Pyrogen content *	Pyrogen free	Pyrogen free	Pyrogen free
Water supply	2 litre/min x 2 Input	3 litre/min x 2 Input	4 litre/min x 2 Input
Electricity supply	220 or 240V, 50-60Hz, single phase	220 or 240V, 50-60Hz, double phase	220 or 240V, 50-60Hz, three phase
Power requirement	3kW	6Kw	12kW

The above output result can be achieved by using treated water as a boiler feed.

Quartz Double distillation Quartz Boiler and Borosilicate Condenser with built in triple safety features.



TECHNICAL SPECIFICATIONS:

CAT.NO:	ECS- 2DQB	ECS- 4DQB	ECS- 8DQB
Output	2 litres/hr, Double distilled	4 litres/hr, double distilled	8 litres/hr, double distilled
Boiler	Quartz	Quartz	Quartz
Condenser	Borosilicate	Borosilicate	Borosilicate
pH	6.0-7.0	6.0-7.0	
Conductivity, μScm^{-1}	0.8-1.0	0.8-1.0	0.8-1.0
Temperature	30 - 40°C	30 - 40°C	30 - 40°C
Pyrogen content *	Pyrogen free	Pyrogen free	Pyrogen free
Water supply	2 litre/min x 2 Input	3 litre/min x 2 Input	4 litre/min x 2 Input
Electricity supply	220 or 240V, 50-60Hz, single phase	220 or 240V, 50-60Hz, double phase	220 or 240V, 50-60Hz, three phase
Power requirement	3kW	6kW	12kW

The above output result can be achieved by using treated water as a boiler feed.

All Quartz Double distillation.
With built in triple safety features.



TECHNICAL SPECIFICATIONS:

CAT.NO:	ECS- 2DQ	ECS- 4DQ	ECS- 8DQ
Output	2 litres/hr, Double distilled	4 litres/hr, double distilled	8 litres/hr, double distilled
Boiler	Quartz	Quartz	Quartz
Condenser	Quartz	Quartz	Quartz
pH	6.0-7.0	6.0-7.0	
Conductivity, μScm^{-1}	0.8-1.0	0.8-1.0	0.8-1.0
Temperature	30 - 40°C	30 - 40°C	30 - 40°C
Pyrogen content *	Pyrogen free	Pyrogen free	Pyrogen free
Water supply	2 litre/min x 2 Input	3 litre/min x 2 Input	4 litre/min x 2 Input
Electricity supply	220 or 240V, 50-60Hz, single phase	220 or 240V, 50-60Hz, double phase	220 or 240V, 50-60Hz, three phase
Power requirement	3kW	6kW	12kW

The above output result can be achieved by using treated water as a boiler feed.

QUARTZ DOUBLE DISTILLER (Demountable vertical unit) EQDD PANEL SERIES (Vertical model).



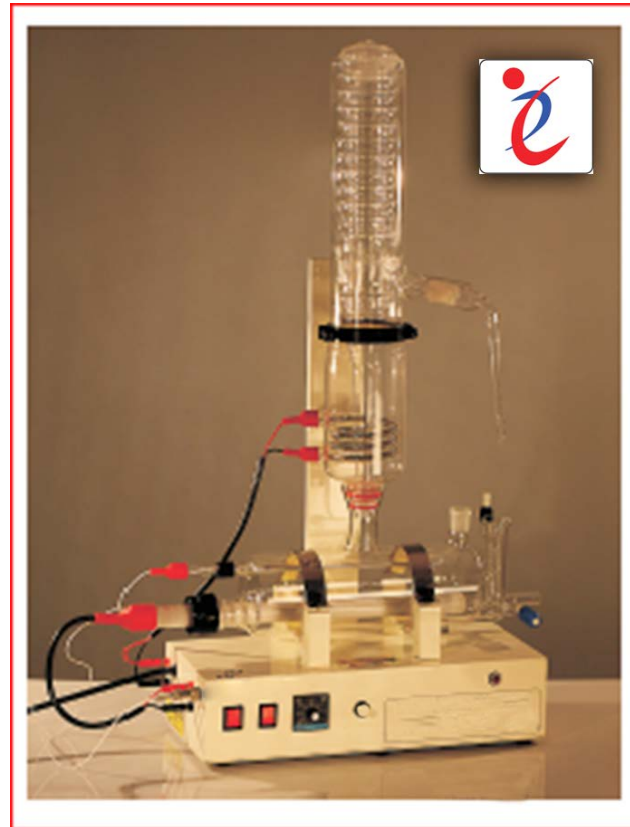
TECHNICAL SPECIFICATIONS:

TYPE	OUTPUT CAPACITY	POWER REQUIRED	COOLIN WATER FEED (approx)
EQDD1	1ltrs/hr	2kw Single Phase	40Liters/hr
EQDD1.5	1.5 ltrs/hr	3kw Single Phase	60Liters/hr
EQDD2	2 ltrs/hr	4kw Single Phase	65Liters/hr
EQDD2.5	2.5 ltrs/hr	4.5kw Double Phase	70Liters/hr
EQDD3	3 ltrs/hr	5kw Double Phase	100Liters/hr
EQDD4	4 ltrs/hr	6kw Double Phase	120Liters/hr
EQDD5	5 ltrs/hr	8kw Double Phase	150Liters/hr

The above output result can be achieved by using treated water as a boiler feed.

POR* Price on Request

QUARTZ DOUBLE DISTILLER EQDD-SHSERIES **(Demountable with Replaceable Silica Heater and Built in Triple Safety fail safe device)**



TECHNICAL SPECIFICATIONS:

TYPE	OUTPUT CAPACITY	POWER REQUIRED	COOLING WATER FEED
			(approx)
EQDD-SH1	1ltrs/hr	2kw	40Liters/hr
EQDD SH1.5	1.5 ltrs/hr	3kw	60Liters/hr
EQDD SH2	2 ltrs/hr	4kw	65Liters/hr
EQDD SH2.5	2.5 ltrs/hr	4.5kw	70Liters/hr
EQDD SH3	3 ltrs/hr	5kw	100Liters/hr
EQDD SH4	4 ltrs/hr	6kw	120Liters/hr
EQDD SH5	5 ltrs/hr	8kw	150Liters/hr

The above output result can be achieved by using treated water as a boiler feed.

All Quartz Double distillation. Fully Automatic with Micro Processing Control with Numeric Display



DistillateQuality	: PYROGENFREE
Organic Matter	: NIL
Specific Conductivity	: 0.1-0.5uS/cm
RH/PH	: 6.9-7.0
Free from Heavy metals	
Yeast and mould	: Zero
TotalPlateCount	: Zero
StandardPlateCount	: Zero
KmnO4 Color retention	:60minutes

The above output result can be achieved by using treated water as a boiler feed.

Product Code	Boiler	Condenser	OutputCapacity
EQDD-SS 2	Quartz	Quartz	2liters/hr
EQDD-SS 4	Quartz	Quartz	4liters/hr

MICRO PROCESSING CONTROL (Suitable for Sub Boiling Unit)



Product Code	Output Capacity
ESMPC200	200ml
ESMPC500	500ml
ESMPC1000	1000ml

ELECTRONIC DUAL CUT-OFF SYSTEM.

Model No:	Item:	Descriptions:
EDCS-1	Electronic Dual Cut-Off system	Upto 2.5 Ltrs/Hr
EDCS-2	Electronic Dual Cut-Off system	Above 2.5 liters/hr
Model No:	Item:	Descriptions:
EONO-1	Mono Cut-Off system	To Suit all models of single distillation

WATER STILL & ACCESSORIES

DM PLANT

***For input TDS less than 200**

Model No.	Min Flow Rate Ltrs/Hr	Max. Flow Rate Ltrs/Hr	Output between Regeneration (Lts.)*	Min. Pressure Kg/cm2
AQUA-DM10 BASIC	10	100	600*	0.5
AQUA-DM10 XL	10	100	600*	0.5
AQUA-DM20 XL	20	200	2000*	1.5
AQUA-DM60 XL	60	600	3500*	2.0

WATER CIRCULATOR/CHILLER

SI No.	Model No.	Descriptions:
1	W.CIRCULATOR-2.0	For single distillation from 3 -5liters
2	4 W.CIRCULATOR-4.0	For double distillation from 2.5 -4liters

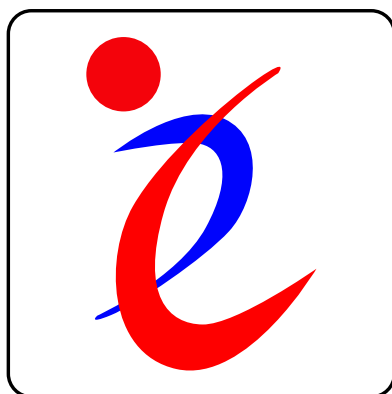
PRE-FILTERS

SI No.	Model No.	Descriptions:
1	PRE-FILTER -1	10 Inch filter & housing
2	PRE-FILTER -2	20 Inch filter & housing

WATER SOFTNERS

SI No.	Model No.	Descriptions:
1	SOFTNER-1	10 Kg. Resins
2	SOFTNER-2	20 Kg. Resins

5 STAGE RO		SYSTEMS	
SI No.	Model No.	Descriptions:	
1	RO-10	10 Liters capacity	



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- Help companies in research and development for developing new products.

Our experience:

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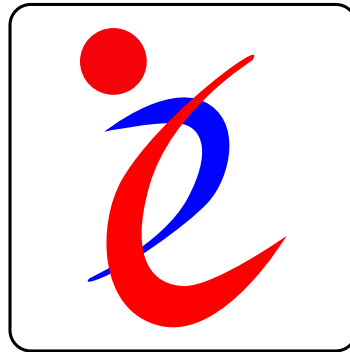
Operation



Product Description

This service relieves you from the mundane operational pressures and allow you to be at ease by handing over the operation to the professionals at ELS. We serve & manage the entire Laboratory by well-trained professionals and take end-to-end responsibility in production and operation. We adapt to your business requirements and ensure the highest peak performance at a minimal cost.

ELS Instruments can operate with your current staff or operate the same with our staff who are trained and managed professionally. We can bring lot of changes in reporting and time bound delivery, which will result in cost savings and efficiency. We can access your current infrastructure and recommend process which suits the operations with right manpower, improvement or realignment of right process to run the Laboratory smoothly.



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Plant Tissue Culture



Our focus:

- Design and construction of facilities for in vitro production of plants as well as procurement of equipment, supplies and chemicals.
- Help companies in research and development to apply in vitro protocols for multiplication and propagation of plants.

Our experience:

With over 20 years' experience in plant tissue culture and biotech industry, we are passionate to provide plant tissue culture solutions to businesses, organizations and individuals.