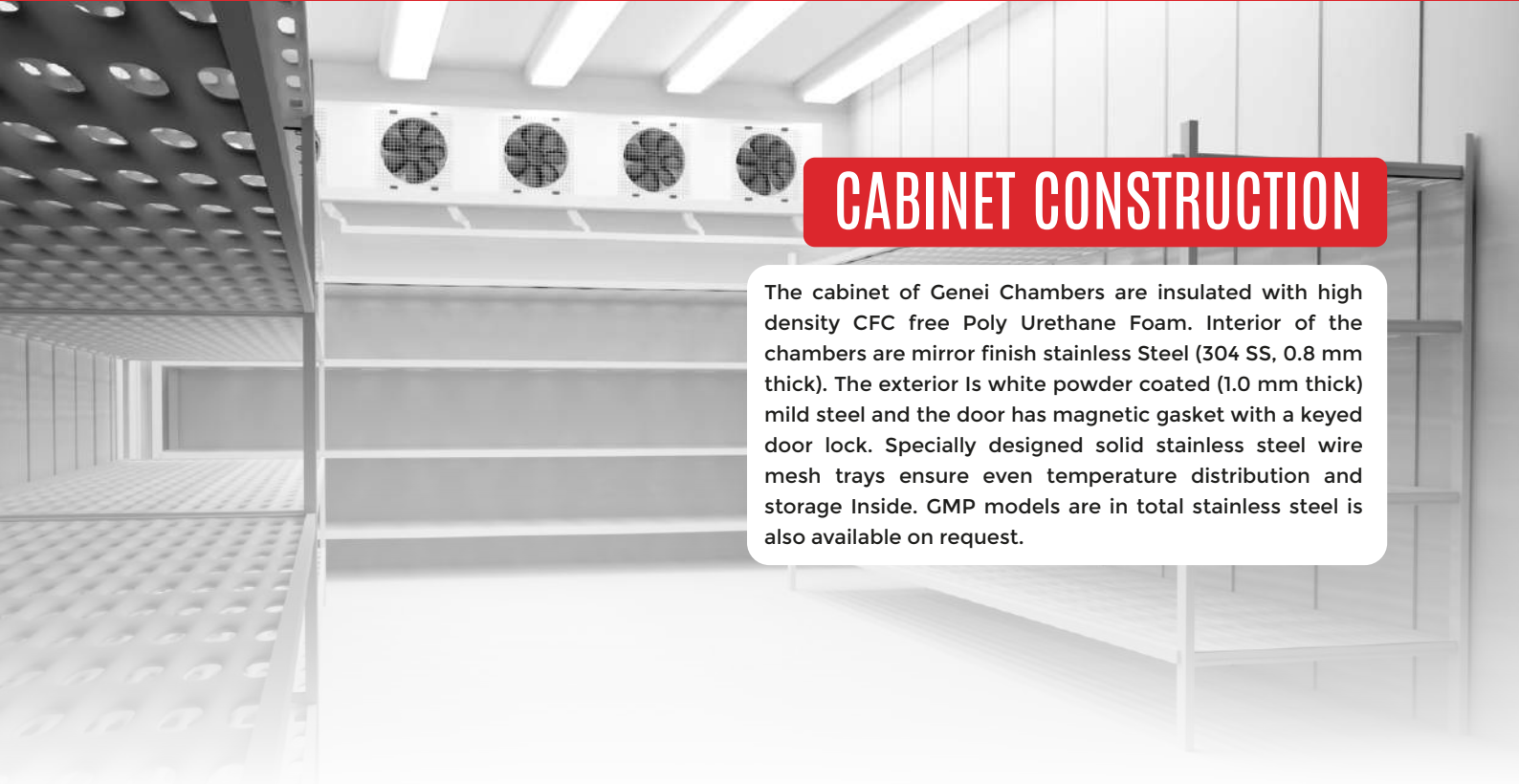


**GeNei**<sup>TM</sup>  
Since 1989

**GenElite**<sup>TM</sup>  
**Instruments**

# BIO SAFETY CABINET / CENTRIFUGES

Genei laboratory instruments are specially designed to conduct stability and shelf life studies on drugs and drugs substances, seed testing, refrigerated storage, biological studies, testing on electronic and mechanical components and regular laboratory practices, these equipment are widely used in Pharmaceutical manufacturing, Biotechnology, Personal product manufacturing, Hospitals and Research centers, Clinical research, Seed Industries, Research and development Laboratories Universities etc. Genei equipment conform to International Standards such as ICH, WHO Guideline, and USFDA requirements.



## CABINET CONSTRUCTION

The cabinet of Genei Chambers are insulated with high density CFC free Poly Urethane Foam. Interior of the chambers are mirror finish stainless Steel (304 SS, 0.8 mm thick). The exterior is white powder coated (1.0 mm thick) mild steel and the door has magnetic gasket with a keyed door lock. Specially designed solid stainless steel wire mesh trays ensure even temperature distribution and storage inside. GMP models are in total stainless steel is also available on request.

## REFRIGERATION SYSTEM

The cooling is effected by CFC free refrigeration system with a condensing unit located inside the chamber. Genei condensing units are characterised by high-efficiency heat transfer and low power consumption.



- CFC free refrigeration with time delay and overload protector to safe guard the compressor
- Inner grooved copper tubes and slit aluminum fins for superior heat transfer
- Filter drier for moisture and dirt protection
- Safety and control devices for better system protection
- Thermally protected and permanently lubricated fan motors

# PROGRAMMABLE LOGIC CONTROLLER (PLC) SYSTEM

A programmable logic controller (PLC) is a digital computer used for automation of controlling electromechanical processes, such as control of Temperature, Speed, Standby systems and event management with less maintenance hence no moving parts.



- 4.3/7 HMI with colour display and touch screen
- Data storage capacity upto 5000 readings
- Individual Alpha numeric user ID and password
- Incorrect password attempt and user lock
- Multi level Password protected Human Machine Interface (HMI)
- Online data can be printed with date and time stamp
- Configurable maintenance reminder pop up alarm
- Used operation will be recorded and saved in memory
- Online and offline Log reports on HMI
- Self diagnostic system with error messages
- Privilege based grouping
- Display of set value and process value
- High speed Ethernet connectivity
- Temperature controlled by PLC

## ALERT MANAGEMENT

- SMS alert message can be send to 5 users with notifications
- Email alert can be send to 15 users with notifications
- Call alert can be send to 5 users with voice message and notifications

- 21 CFR-PART 11 compliant
- Browser based software
- Privilege based Group creation
- Seperate reports for alarm and events
- Multiple chamber data acquisition on single software
- Reports in Tabular and Graphical form
- Privilege based used creation
- Trend analysis report
- Multi user environment
- Email, SMS and call alert
- Mean Kinetic Report
- Automatic Backup Provision
- Equipment audit trial report
- User ID with Alpha numeric password protection
- Multiple level password with automatic expiry
- Electronic signature
- Software audit trial report
- Configuration access for 72 users
- Sample Based Reporting

## DATA ACQUISITION MONITORING SOFTWARE

Genei data acquisition management software is developed considering the importance of online monitoring, controlling and recording data to meet the requirement of 21 CFR part 11 as per ICH guideliness and this software allows you to maintain and analyses the Data of 32 equipment in a single software.



# WALK IN CHAMBERS

## WALK-IN-STABILITY CHAMBER (LSC)

- Capacity 6000, 8000, 10000, 12000, 15000 and upto 100000 Litres
- Temperature range, 20°C to 60°C
- Temperature accuracy  $\pm 0.2^\circ\text{C}$
- Humidity range: 40 to 95% RH
- RH accuracy:  $\pm 2\%$
- PLC controlled

## WALK-IN-PLANT GROWTH CHAMBER (LGC)

- Capacity: 6000, 8000, 10000, 12000, 15000 and up to 100000 Litres
- Temperature range: 10°C to 60°C
- Temperature accuracy:  $\pm 0.2^\circ\text{C}$
- Humidity range: 40 to 95% RH
- RH accuracy:  $\pm 2\%$
- PLC controlled

## WALK-IN-DEEP FREEZER (LDF)

- Capacity: 6000, 8000, 10000, 12000, 15000 and upto 100000 Litres
- Temperature range: 0°C to -20°C
- Temperature accuracy:  $\pm 0.2^\circ\text{C}$
- Adjustable SS racks and trays
- PLC controlled

## WALK-IN COLD ROOM (LLR)

- Capacity 6000, 8000, 10000, 12000, 15000 and up to 100000 Litres
- Temperature range: 2°C to 8°C
- PLC for event management
- Inner chamber SS 304
- Audio-visual alarm
- PLC controlled



## WALK-IN-COOLING INCUBATOR (LCI)

- Capacity 5000, 8000, 10000, 12000, 15000 and up to 100000 Litres
- Temperature range: 5°C to 60°C
- Inner chamber SS 304
- Adjustable SS racks and trays
- Audio-visual alarm
- Accuracy  $\pm 0.5^\circ\text{C}$
- PLC controlled

## WALK-IN-BACTERIOLOGICAL INCUBATOR (LBI)

- Capacity: 6000, 8000, 10000, 12000, 15000 and up to 100000 Litres
- Temperature range : RT 5.0°C to 60.0°C
- Temperature accuracy :  $\pm 0.2^\circ\text{C}$
- SS racks and trays
- PLC controlled

## WALK-IN-BLOOD BANK REFRIGERATOR (LBR)

- Capacity: 6000, 8000, 10000
- Temperature range: 4°C
- Accuracy  $\pm 1.0^\circ\text{C}$
- Inner chamber SS 304
- Adjustable SS trays
- Audio-visual alarm
- PLC controlled



# CHAMBERS



## STABILITY TEST CHAMBER (LSC)

- Capacity: 100, 200, 300, 400, 400, 800, 1000, 1500 and 2000 Litres
- Temperature range : 20°C to 60 °C
- Temperature accuracy : ± 0.20 °C
- Humidity range : 40 to 98% RH
- RH accuracy ± 2%
- PLC Controlled



## PHOTO STABILITY CHAMBER (LPC)

- Capacity: 200 300 400 600, 800, 1000 Litres
- Temperature range 20 to 60 °C
- Temperature accuracy ±0.2 °C
- Humidity range: 40 to 98% RH
- RH accuracy: ±2%
- PLC Controlled
- Lux meter. UV meter & digital timer



## PLANT GROWTH CHAMBER (LGC)

- Capacity : 200, 300, 400, 600, 800 1000, 1500 and 2000 Litres
- Temperature range : 10° to 50°C
- Temperature accuracy : ± 0.20°C
- Humidity range: 40 to 98% RH
- RH accuracy : 2%
- PLC controlled
- Lux and UV meter



## SEED GERMINATOR (LSG)

- Capacity: 200, 300, 400, 800, 800 1000, 1500 and 2000 Litres
- Temperature range: 5 °C to 60 °C
- Temperature accuracy: -0.2 °C
- Humidity range: 40 to 98% RH
- AH accuracy : ± 2%
- PLC controlled
- Lux meter and digital timer



## LABORATORY REFRIGERATOR (LLR)

- Capacity: 100, 200, 300, 400, 600, 800, 1000, 1500 and 2000 Litres
- Temperature range : 2°C to 10 °C
- Micro controller/PLC controlled
- Inner chamber SS 304
- Adjustable SS trays
- Audio-visual alarm



## COOLING (B.O.D.) INCUBATOR (LCI)

- Capacity: 100, 200, 300, 400, 600, 800, 1000, 1500 and 2000 Litres
- Temperature range: 5°C to 60°C
- Micro controller/PLC controlled
- Inner chamber SS 304
- Adjustable SS trays
- Audio-visual alarm
- Accuracy : ± 0.5°C



## BACTERIOLOGICAL INCUBATOR (LBI)

- Capacity : 100,200,300,400,600, 800,1000,1500 and 2000 Litres
- Temperature range 5°C above Ambient to 60°C
- Accuracy : ± 0.5 °C
- Micro controller/PLC controlled
- Inner chamber SS 304
- Adjustable SS trays
- Audio-visual alarm



## FREEZE THAW CHAMBER (LFT)

- Capacity 100,200,300,400 600, 800,1000 Temperature range : 35°C to 70°C
- Inner chamber SS 304
- Adjustable SS trays
- Audio-visual alarm
- PLC controlled

# FREEZERS



## ULTRA BIOFREEZE -80°C (LUBF)

- Capacity : 90,170 and 350 Litres
- Models : vertical & horizontal.
- Temperature range : -40°C to -80°C
- Micro controller/PLC controlled
- Inner chamber SS 304
- Adjustable SS trays
- Audio-visual alarm
- SS Inner Door



## BIOFREEZE -40°C (LBF)

- Capacity: 90,170,350,450 and 600 Litres
- Models : vertical & fhorizontal
- Temperature range : -20 to -40°C
- Micro controller/PLC controlled
- Inner chamber SS 304
- Adjustable SS trays
- Audio-visual alarm
- Stainless Steel Inner Door



## DEEP FREEZER -20°C (LDF)

- Capacity: 90,170,350,450 and 600 litres
- Models vertical & horizontal
- Temperature range : 0 to -20°C
- Micro controller/PLC controlled
- Inner chamber SS 304
- Adjustable SS trays
- Audio-visual alarm



## ICE LINED FREEZER (LIF)

- Temperature: 0 - 20°C
- Models vertical & horizontal
- Micro controller based program
- Inner chamber SS 304
- Adjustable SS trays
- 24/48/72 hrs temp backup
- Audio-visual alarm
- Capacity 150 and 300 Litres

## ICE LINED REFRIGERATOR (LIR)

- Capacity : 150 and 300 Litres
- Temperature range: 2°C to 8 °C
- Models vertical & horizontal
- Micro controller based program
- Inner chamber SS 304
- Adjustable SS trays
- 24/48/72 hrs Temp. backup
- Audio-visual alarm



## LABORATORY OVEN (LLO)

- Capacity 90, 120, 200 and 325 Litres
- Temperature range: 5°C above ambient to 250 °C
- 5°C above Micro controller based program
- Inner chamber SS 304
- Adjustable SS trays
- Audio-visual alarm



## CIRCULATING BATH (LCB)

- Capacity : 5, 12, 20 Litres
- Temperature range : -35 to 100 °C
- Micro controller based program
- SS interior with rounded corners
- Integrated pump for Temp. uniformity
- Accuracy : ± 0.5



## RECIRCULATING CHILLER (LRB)

- Capacity : 5, 12, 20 Litres
- Temperature range : -0°C to RT
- Micro controller based program
- SS interior with round corners
- Integrated pump for External circulation



# SHAKERS



## DUAL CHAMBER

- Inner chamber SS 304
- Adjustable SS trays
- Audio visual alarm
- Customised temperature range  
20-60°C/5-60°C/2-8°C/-20°C



## TRIPLE CHAMBER

- Inner chamber SS 304
- Adjustable SS trays
- Audio visual alarm
- Customised temperature range  
20-60°C/5-60°C/2-8°C/-20°C



## THREE TIER ORBITAL SHAKER (LOS)

- Micro-controller based program
- Amplitude 50mm
- Maintenance free Brushless Motor
- Universal platform
- Max speed 30 to 200 rpm
- Timer up to 99 hrs & LED Display
- Auto Restart when power resume
- Permanent lubricated bearings



## DOUBLE TIER ORBITAL SHAKER (LOS)

- Micro-controller based program
- Amplitude : 50 mm
- Maintenance free Brushless Motor
- Universal platform
- Speed range : 30 to 250 rpm
- Timer up to 99 hrs. & LED Display
- Auto Restart when power resume



## SINGLE TIER ORBITAL SHAKER (LOS)

- Micro-controller based program
- Amplitude : 50 mm
- Maintenance free Brushless Motor
- Universal platform
- Speed range : 30 to 350 rpm
- Timer up to 99 hrs.
- LED Display
- Auto Restart when power resume



## MULTI TUBE BIOMIXER (LBM)

- 100 tubes can be mixed at a time
- Amplitude : 3.6 mm
- Speed adjustable from  
500 to 2500 rpm
- Timer can be set up to 99 mins
- LCD display



## ENVIRONMENTAL SHAKING INCUBATOR (LSI)

- Shaking speed : 30 to 350rpm
- Time can be set up to 99 hrs.
- Temp. range : 20°C to 60°C
- Humidity range : 40% to 95% RH
- Stationary Tray
- PLC controlled
- Auto Restart when power resume



## ORBITAL SHAKING INCUBATOR (LSI)

- Micro controller/PLC program
- Temperature range : 5°C to 60°C
- Audio-visual alarm
- Amplitude : 30 to 350 rpm
- Universal Platform and  
stationery trays
- Auto restart when power resume
- Maintenance free Induction Motor



# BIOSAFETY CABINET / CENTRIFUGES



## LAMINAR AIR FLOW (LLF)

- Size: 2x2x2, 3x2x2, 4x2x2, 5x2x2, 6x2x2 ft
- Cleanliness : Class 100
- Particle Retention : 0.3 Micron
- Velocity : 90/minute ± 20
- Noise level : 65 decibel ± 5
- Efficiency : 99.97%
- Motorised Sash Door
- Manual/PLC



## WATER BATH (LWB)

- Capacity : 5, 14, 20 Litres
- Temperature range  
Ambient ± 5°C to 100 °C
- Micro Controller based programm
- SS interior with rounded comers
- Accuracy: ± 0.5°C



## BIOSAFETY CABINET (LBS) CLASS IIB2

- Size: 3x2x2, 4x2x2, 5x2x2, 6x2x2 ft
- Motorised Sash Door
- Class 100
- 100 exhaust
- Manual/PLC



## BIOSAFETY CABINET (LBS) CLASS IIA2

- Size: 3x2x2, 4x2x2, 5x2x2, 6x2x2 ft
- Motorised Sash Door
- Class 100
- 70% re-circulation 30% pexhaust
- Manual/PLC



## SUPER HIGH VOLUME REFRIGERATED CENTRIFUGE (LHC-12R)

- PLC Controlled
- Maintenance free Brushless Motor
- Max speed : 7000 rpm
- Max RCF 14000 x g
- Max. Volume 6 x 2000 ml
- Temperature : -20°C to 40° C
- Timer up to 99 minutes
- 4.3° Colour HMI with touch screen
- 99 programs memory



## HIGH VOLUME REFRIGERATED CENTRIFUGE (LHC-6R)

- PLC Controlled
- Maintenance free Brushless Mator
- Max. speed 6000 rpm
- Max RCF 10000 x g
- Max Volume 6 x 1000 ml
- Temperature : -20°C to 40°C
- Timer up to 99 minutes
- 4.3 Colour HMI with touch screen



## HIGH SPEED REFRIGERATED RESEARCH CENTRIFUGE (LRC-25R)

- Temperature : -20°C to 40°C
- Accuracy : ±1°C
- Maintenance free Brushless Motor
- Max Speed : 25000 rpm
- Max. RCF 61250 x g
- Max. Volume : 6 x 500 ml
- PLC Controlled



## HIGH SPEED REFRIGERATED RESEARCH CENTRIFUGE (LRC-10R)

- PLC Controlled
- Temperature : -20°C to 40°C
- Accuracy : ± 1°C
- Maintenance free Brushless Motor
- Max Speed : 10000 rpm
- Max RCF 10750 x g



# CENTRIFUGES

## PRP CENTRIFUGE (LLC-6P)



- Micro-controlled based program
- Maintenance free Brushless Motor
- Safety door lock
- Max Speed : 4000 rpm
- Max RCF 2600xg
- Timer up to 99 min.
- Graphic Display
- Motorised door lock

## REFRIGERATED PRP CENTRIFUGE (LLC-6PR)



- PLC controlled based program
- Maintenance free Brushless Motor
- Max. speed : 4000 rpm
- Max. RCF 2600 x g
- Temperature : -20°C to 40°C
- Timer up to 99min.
- Graphic Display
- Motorised door lock

## RESEARCH CENTRIFUGE (LRC-20)



- PLC controlled based program
- Maintenance free Brushless Motor
- Max Speed : 20000 rpm
- Max. RCF 27800 x g
- Timer up to 99 min
- Touch Screen Display
- Motorised door lock
- Max Capacity : 4 x 100ml

## REFRIGERATED RESEARCH CENTRIFUGE (LRC-20R)



- PLC controlled based program
- Maintenance free Brushless Motor
- Max Speed : 20000 rpm
- Max RCF 27800x g
- Temperature : -20°C to 40°C
- Timer up to 99 min.
- Motorised door lock
- Max Capacity : 4x100ml

## LABORATORY CENTRIFUGE (LLC-5)



- Micro-controller based program
- Maintenance free Brushless Motor
- Max. Speed 5000 rpm
- Max. RCF 3650 x g
- Max. Capacity : 32 x 15 ml
- Swingout & Angle Rotors
- Timer up to 99 min.
- Graphic Display
- Motorised door lock

## REFRIGERATED LABORATORY CENTRIFUGE (LLC-5R)



- PLC controlled program
- Maintenance free Brushless Motor
- Max. Speed : 5000 rpm.
- Max. RCF 3650 x g
- Max. Capacity : 32 x 15 ml
- Temperature : 20°C to +40°C
- Timer up to 99 min
- Motorised door lock

## LABORATORY CENTRIFUGE (LLC-6)



- Micro-controlled based program
- Maintenance free Brushless Motor
- Max Speed : 6000 rpm
- Max RCF 4000xg
- Max. Capacity : 6x50 ml
- Swingout & Angle Rotors
- Timer up to 99 min
- Graphic Display
- Motorised door lock

## LABORATORY CENTRIFUGE (LLC-4)



- Micro-controlled based program
- Maintenance free Brushless Motor
- Max. Speed 4000 rpm
- Max RCF 2690x g
- Max. Capacity : 4x50ml
- Swingout & Angle Rotors
- Timer up to 99 min
- Graphic Display
- Motorised door lock

# BLOOD BANK EQUIPMENT



## BLOOD COLLECTION MONITOR (LCM)

- Readability : 1ml/1g
- Volume can be set up to 999 ml.
- Display in weight and volume
- Audio-visual alarm
- LCD display
- Battery backup of 35 Hrs
- Auto calibration
- ABS Moulded body



## BLOOD BAG TUBE SEALER (LTS)

- Dielectric radio frequency sealing system
- Sealing time less than 1.4 sec. per tube
- Frequency : 40.68 MHz
- Battery Backup of 700 seals.



## BLOOD BANK REFRIGERATED CENTRIFUGE LBC-6/8/12

- Temperature range : -20°C to 40°C
- Maximum speed : 4600 rpm
- Speed accuracy :  $\pm 50$  rpm
- Maximum RCF 7060 x g
- Maximum capacity : 12x450 ml bags
- PCL controlled
- 99 Programs memory
- Brushless



## BUCKETS EQUALIZER (LBE-2)

- Balancing with accuracy and precision
- Independent tarring for both the pans
- Audio-visual alarm with error messages
- Helps in separating quality components
- Shows deferential weights
- User friendly system with LCD messages



## ELECTRONIC PLASMA EXPRESSOR (LPE)

- IR sensor
- Motor activated clamping
- Audio-visual alarm
- Spring loaded acrylic plate
- Uniform pressure
- Manual and Automatic



## BLOOD BANK SCALE (LWS)

- Capacity: 3 kg
- Micro controller based program
- Accuracy : 10
- Easy conversion of weight to volume
- Auto Tare function
- LCD display
- Auto Calibration

# BLOOD BANK EQUIPMENT



## BLOOD BANK REFRIGERATOR (LBR)

- Capacity : 100, 200, 300, 400, 600,800, 1000, 1500 and 2000 Litres
- Temperature : 4°C
- Micro controller based program
- 7 days circular chart recorder
- Audio-visual alarm
- See through glass door
- SS 304 baskets



## REAGENT REFRIGERATOR (LLR)

- Capacity : 100, 200, 300, 400, 600, 800, 1000, 1500 and 2000 Litres
- Temperature ranges : 2 °C to 8 °C
- Micro controller based program
- Inner chambers SS 304
- Adjustable SS trays
- Audio-visual alarm



## CRYOFREEZ-80°C (LCF)

- Capacity : 90, 170 and 350 Litres
- Temperature ranges : -40° C to -80° C
- Micro controller based program
- Inner chambers SS 304
- Stainless Steel Plasma Baskets
- Audio-visual alarm
- 7 Days circular chart recorder



## CRYOPRECIPITATE BATH (LPB)

- Capacity : 20 Liters (Approx. 15 bags)
- 5 lts (4 bags)
- Temperature 4°C to 40° C
- Micro controller based program
- Smooth Acrylic tray for accommodating
- plasma bags
- SS 316 interior with rounded corners
- Integrated pump for temperature uniformity



## PLASMA FREEZER -40°C (LPF)

- Capacity : 90, 170, 350, 450 and 600 Litre
- Temperature ranges : -40 °C
- Micro controller based program
- Inner chambers SS 304
- Audio-visual alarm
- 7 days circular chart recorder
- Stainless Steel Baskets



## PLASMA THAWING BATH (LTB)

- Capacity: 20 Liters (Approx. 15 bags) 5 lts/4 bags
- Temperature 37 C
- Micro controller based program
- Plasma bag holderst
- SS 316 interior with rounded comers
- Integrated pump for temperature uniformity



## PLATELET INCUBATOR (LPI)

- Capacity : 125, 250, 500 Litres
- Temperature : 22 °C
- Micro controller based progra
- Single and double bier
- 7 clays circular chart recorder



## PLATELET AGITATOR (LPA)

- Oscillation : 705 cycles/men
- Capacity : 36 and 48 bags
- Input voltage : 230/110 VAC
- Motion Failure Alarm
- Display of rpm



# GeNei<sup>TM</sup>

Since 1989



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