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# Authentic Instruments

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# Intelligent Lab Refrigerator

## Application

- ✓ Lab/Pharmaceutical/Kits Refrigerator is mainly used for preservation of Samples/Kits/Pharmaceutical medicines Vaccines prior to analysis Temperature sensitive working standards.
- ✓ The refrigerator in a laboratory is one of the most important equipment. Its function is to maintain, in a controlled environment (refrigerated space), various fluids and substances, so that they are kept in good condition the lower the temperature, the lower chemical and biological activity

## Highlights

- ✓ Highly Accurate Virtual Thermograph – The VORTEX™
- ✓ 4.3/7.1" TFT touch screen control- IRIS™ (Instantly Reportable Informatics System)- Automatically receive 7 day report of temperature in your email in accordance with global compliance
- ✓ Acoustic, Visual and SMS alarms.
- ✓ Robust Construction with ergonomically designed inbuilt body handle.
- ✓ Port for Central Monitoring System for viewing the temperatures of all the blood bank equipments at same place on 10.3" Touch Screen industrial computer.
- ✓ USB port for chart downloading to pen drive\*.



## Lab Refrigerator

## Features

- ✓ Dual Safety Controller cum Online regular Calibrator.
- ✓ Non-invasive defrost with time & temperature guided cycle.
- ✓ 4 or more weeks Thermograph Email facility Automatically and Manually as well.
- ✓ Ethernet and Cellular Network connectivity (2G & 3G)
- ✓ Hold over time full load 1..5 hours .
- ✓ Compressor running ON/OFF cycle 35:65
- ✓ Manufacturing unit compliant with ISO 13485:2003, ISO 9001 9001:2008,
- ✓ Equipment compliant with Electrical safety specification of IEC 60601-1.
- ✓ Equipment is compliant with EU CE (4 Digit Notified).
- ✓ Web based online portal to register complaints.



IRIS touch screen



Heavy duty Castor Wheels

# Lab Refrigerator



Series	Model	Temperature Range	Capacity (in Liters)	Controller Type	Drawers	Certifications
X1	LR 80	2 to 8°C Set Point 4°C	150-250	4.3" Touch Screen	3	Notified CE,ISO
	LR200		251-350		5	Notified CE,ISO
	LR400		351-450		5	Notified CE,ISO
	LR700		500-700		6	Notified CE,ISO
X2	LR 80	2 to 8°C Set Point 4°C	150-250	7.1" Touch Screen	3	Notified CE,ISO
	LR200		251-350		5	Notified CE,ISO
	LR400		351-450		5	Notified CE,ISO
	LR700		500-700		6	Notified CE,ISO

## Technical Specification

- ✓ Operating Temperature 2°C to 8°C  $\pm$  1°C, Temperature gradient  $\pm$ 1° C with Accuracy of  $\pm$ 1° C.
- ✓ Microprocessor Based Eye level Positioning of Touch screen for monitoring and controlling the temperature of the equipment.
- ✓ Inkless & paperless thermo-graphical chart recording system with 4 weeks chart storage capacity having Selective graph range.
- ✓ Double pane door packed toughened glass with full visibility of units without door opening, door insulation thickness of 65 mm.
- ✓ Internal acrylic cover for each drawer to minimize temperature loss of inside cabinet when door opens.
- ✓ RTD located in top portion of chamber in a encapsulated glycerin bottle for accurate temperature measurement.
- ✓ Ergonomically designed door handle & latch assembly that allows for easy right-or-left handed operation .
- ✓ Scratch resistant Mesh type sliding stainless SS 304 steel trays with sufficient airspace to ensure good air circulation.
- ✓ Door Key lock & Provision for padlock facility.
- ✓ Hot line around the gate of the cabinet which prevents condensate formation.
- ✓ CFC & HCFC free non-flammable refrigerants. with tank insulation of 60 mm thick polyurethane foam.
- ✓ Interior made from AISI 304 grade 22 SWG polished Stainless Steel.
- ✓ Sturdy galvanized C.R. sheet metal, non corrosive Grey powder coated tough exterior finish. Vertical/ Horizontal
- ✓ Blower Positioned at 90° switches off automatically when you open the door and lamp glows for uniform lighting inside the cabinet.
- ✓ Heavy duty Lockable adjustable Castor Wheels to lock the equipment in place without moving. Ground Clearance of 100 mm.
- ✓ Condenser enhanced finned tube & forced air cooling.
- ✓ Digital Display : Actual temperature ,Door status closed/open, Compressor On/Off, High/low voltage , Mains/Power failure status.
- ✓ Optical & acoustical Alarm with mute facility : Door opening ,Power failure, temperature deviation , Sensor open/short (only visual), Compressor on/off(only visual), High/low Voltage(only visual).
- ✓ Overvoltage and under voltage protection circuit.
- ✓ USB port for Downloading of Thermograph through Pen Drive.
- ✓ Maintenance free Battery backup up to 50 hrs. for temperature weekly circular chart recorder with the life of up to 10 years for recording of thermograph.
- ✓ Indication of Battery back-up in Percentage status on information centre or Touch Screen Controller.
- ✓ There isn't any requirement of external software life time for configuration and access of Thermograph data collection & analysis.
- ✓ IMC (Instrument Maintenance Card ) Contains Details of Installation,PM's & Calibration Planned date with due date.
- ✓ Ventilation-enforced refrigerating machine, vibration free, hermetically sealed, energy saving, low noise, easy to service.
- ✓ Inlet air and exhaust air flow through the ventilation slits at the front and the back.
- ✓ Electrical requirements.220V to 240V, 50 Hz, 6 Amp. Single phase A.C.
- ✓ Self diagnosis of Error / faults & warnings.
- ✓ Hold over time – up to 24 hrs depend on situation

# Intelligent Bio Safety Cabinet

## Application

- ✓ A Bio Safety Cabinet is defined as enclosed workbench which is used to create a contamination free work environment through installed HEPA filters that capture all the particles entering the cabinet.
- ✓ A biological safety cabinet (BSC) is a primary engineering control used to protect personnel against bio hazardous or infectious agents and to help maintain quality control of the material being worked with as it filters both the inflow and exhaust air.
- ✓ Our Bio Safety Cabinet has controller positioned at Eye level for better visibility.

## Highlights

- ✓ 4.3" TFT touch screen control- IRIS™ (Instantly Reportable Informatics System)
- ✓ Acoustic & Visual alarms.
- ✓ Robust Construction with ergonomically designed inbuilt body handle.
- ✓ Port for Central Monitoring System for viewing the temperatures of all the blood bank equipments at same place on 10.3" Touch Screen industrial computer.
- ✓ USB port for chart downloading to pen drive\*

## Features

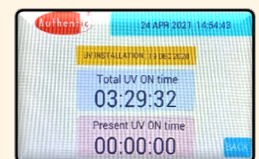
- ✓ Monitoring of Filter Pressure, Total working Hours of UV Light, UV Florescent lamp Control with Intensity indication.
- ✓ Indicates operational hours & Installation date of Cabinet.
- ✓ Manufacturing unit compliant with ISO 13485:2003, ISO 9001 9001:2008,
- ✓ Equipment compliant with Electrical safety specification of IEC 60601-1.
- ✓ CE Compliance.
- ✓ Web based online portal to register complaints.



## Bio Safety Cabinet

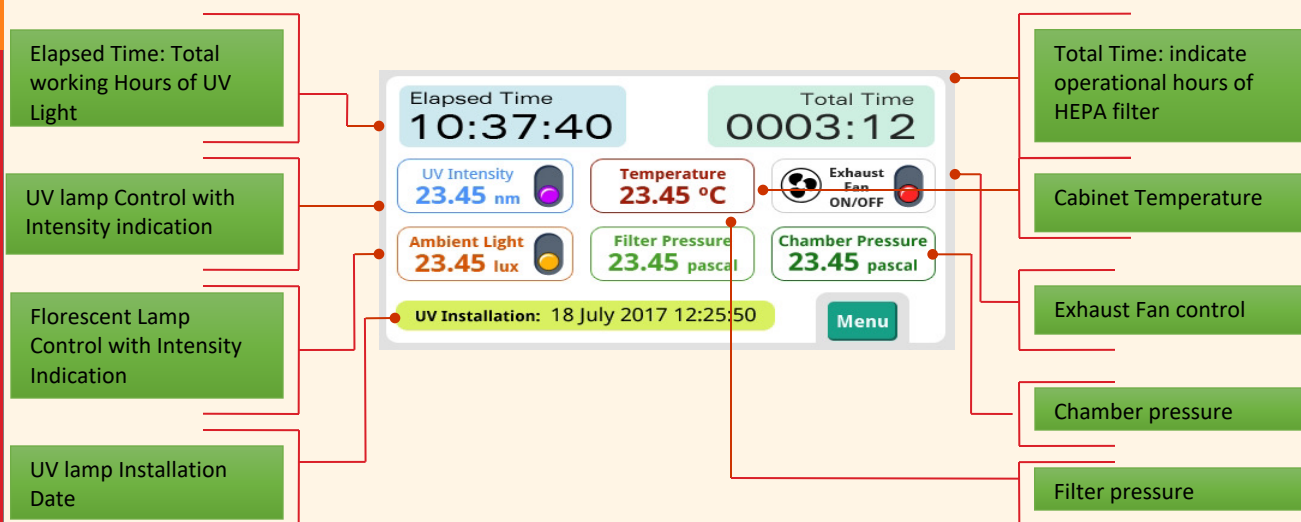


Home  
Screen



UV  
Monitoring

## Intelligent Blood Bank Equipments Bio Safety Cabinet



### 4.3" Touch Screen

Our advance user friendly ,self explanatory & simple to operate digital display provides easy navigation for all the required parameter and usage data to address any lingering user concerns. Authentic Bio-Safety cabinet are specially designed for functioning properly to protect user and their valuable samples. Built in Performance details such as user interaction logs, errors and event logs are easily identified to drive continuous process improvement and reproducibility of results.

# Bio Safety Cabinet



Model	Product Class/Type	Size	General Technical Specifications
BSC 322H	II A2/B2	3 x2x2 Ft.	<b>Working Table of 3 ft</b> ,Magnehelic gauge/Manometer is used to senses the differential Pressure. Filter Efficiency of ULPA/HEPA Filter ≥99.9995% particles of up to 0.12micron.
	II A2/B2	3x2x2 Ft.	<b>Working Table of 3 ft ,4.3" Touch Screen</b> is used to senses the differential Pressure & Controlling of Parameters. Filter Efficiency of ULPA/HEPA Filter ≥99.9995% particles of up to 0.12micron. Filter detection, Real time Monitoring of UV light. Light Intensity 900 lux.
BSC 422H	II A2/B2	4x2x2 Ft.	<b>Working Table of 4 ft</b> ,Magnehelic gauge/Manometer is used to senses the differential Pressure. Filter Efficiency of ULPA/HEPA Filter ≥99.9995% particles of up to 0.12micron.
	II A2/ B2	4x2x2 Ft.	<b>Working Table of 4ft ,4.3" Touch Screen</b> is used to senses the differential Pressure & Controlling of Parameters. Filter Efficiency of ULPA/HEPA Filter ≥99.9995% particles of up to 0.12micron. Filter detection, Real time Monitoring of UV light. Light Intensity 900 lux.
BSC 622H	II A2/B2	6x2x2 Ft.	<b>Working Table of 6ft</b> ,Magnehelic gauge/Manometer is used to senses the differential Pressure. Filter Efficiency of ULPA/HEPA Filter ≥99.9995% particles of up to 0.12micron.
	II A2/B2	6x2x2 Ft.	<b>Working Table of 6ft ,4.3" Touch Screen</b> is used to senses the differential Pressure & Controlling of Parameters. Filter Efficiency of ULPA/HEPA Filter ≥99.9995% particles of up to 0.12micron. Filter detection, Real time Monitoring of UV light. Light Intensity 900 lux.
Always Mention Catalog followed by Type as Model i.e.. <b>BSC 3x2x2 II B2 (Traditional)</b> or <b>BSC 4x2x2 II A2 (X1-4.3)</b>			

## Technical Specification

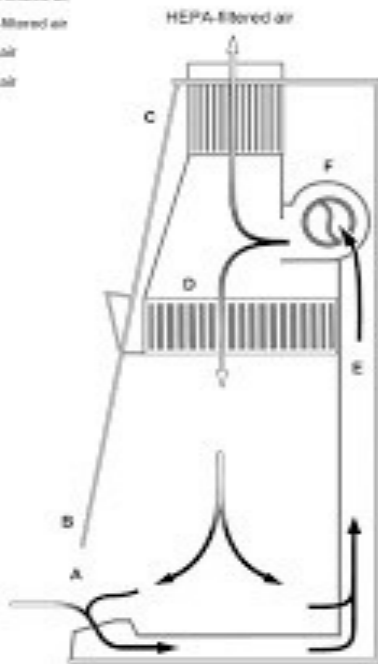
- ✓ Floor model, well-lighted, low vibration and noise level >60db, easy to manoeuvre due to castor wheel provision.
  - ✓ Microprocessor Based Touch screen for monitoring ,controlling Parameters & Operating Switches of the equipment.
  - ✓ Front Panels: Removable transparent scratch resistant, Frameless opening sash made up tempered glass without sharp edges of 6-7mm thickness. Shatterproof sash with programmable UV lights which shuts-off on sash opening(8 inches).
  - ✓ Side panels are made of dual thick transparent UV flexi glass duly framed & transparent front door, adjustable & removable made out of transparent acrylic sheet.
  - ✓ Digital Display : Real time monitoring, Cabinet temperature , Filter pressure , Blower Fan, Exhaust Fan control ,Total Time: indicate operational hours ,UV & Florescent Lamp Control with Intensity Indication.
  - ✓ The magnehelic gauge/Manometer are used to senses the differential in air pressure that is exerted on it. The pointer or dial that is connected to the diaphragm responds to the change in pressure between the two sides of the diaphragm giving the pressure reading.
  - ✓ Optional: Audible and visual Alarms for ULPA/HEPA filter failure, blower failure, airflow speed failure, Incorrect window position.
  - ✓ Equipped with washable fiber Pre-Filters.
  - ✓ Leak tight Stainless Steel removable Working Table of 304 SWG 18 /20 SWG lining. Leak tight stainless-steel interior, 304 stainless steel, removable surface with lift out option.
  - ✓ ULPA/HEPA filters confirms to class 100 levels of cleanliness as per U.S. Federal Standard 209B with filtration efficiency 99.99 % removal of air born particles size at 0.3 microns as contaminant.
  - ✓ Air Velocity double filtered air blowing through the worktable at a nominal controlled velocity of approx. 100 to 110ft/per minute.
  - ✓ Display of Battery Percentage status, 0-100% charge in just 2 hours with over charging & deep discharge Protection.
  - ✓ The cabinet ensures for uniform UV & Florescent light intensity of up to 1300 Lux.
  - ✓ Provision for Taps for vacuum, water and non combustible gas.
  - ✓ Electrical requirements.220V to 240V, 50 Hz, 6 Amp. Single phase A.C.
  - ✓ Self diagnosis & Display of Error / faults & warnings.
- OPTIONAL :**
- ✓ Overvoltage and under voltage protection circuit.
  - ✓ USB port for Downloading of data via Pen Drive.
  - ✓ Stabilizer of appropriate rating will be a part of machine.



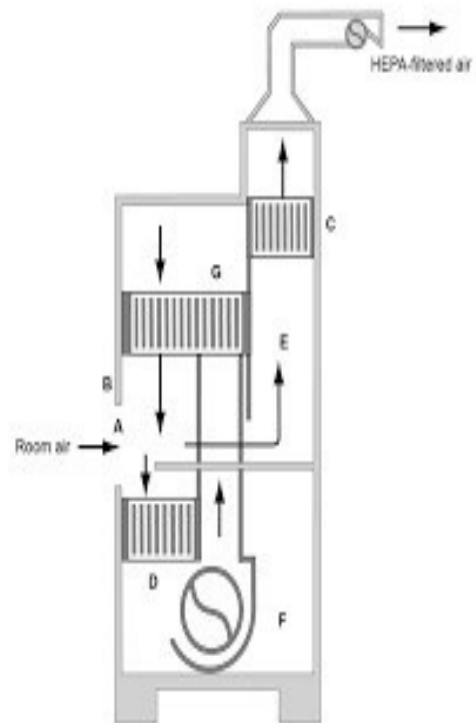
## Intelligent Bio Safety Cabinet

Characteristics	Class II, Type B2 BSC	Class II, Type A2 BSC
Airflow pattern	No recirculation within work area. <b>100% total flow is exhausted.</b>	Approximately <b>70% of air is recycled</b> and approx 30% exhausted.
Exhaust system type	Must be direct ducted	Recirculating — filtered exhaust into room

■ Contaminated air  
 □ HEPA-filtered air  
 ■ Room air  
 ■ Mixed air



Class II, Type A2 BSC



Class II, Type B2 BSC

# Intelligent Laminar Air Flow

## Application

- ✓ A laminar Air flow is defined as enclosed workbench which is used to create a contamination free work environment through installed HEPA filters that capture all the particles entering the cabinet.
- ✓ A laminar Air flow is used for work with substances which are not hazardous for the personnel health.
- ✓ Our Laminar Air flow has controller positioned at Eye level for better visibility.

## Highlights

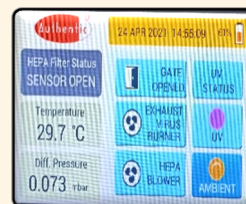
- ✓ 4.3" TFT touch screen control- IRIS™ (Instantly Reportable Informatics System)
- ✓ Acoustic & Visual alarms.
- ✓ Robust Construction with ergonomically designed inbuilt body handle.
- ✓ Port for Central Monitoring System for viewing the temperatures of all the blood bank equipments at same place on 10.3" Touch Screen industrial computer.
- ✓ USB port for chart downloading to pen drive\*.

## Features

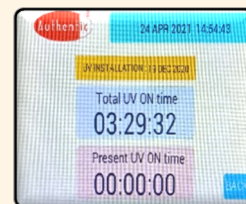
- ✓ Monitoring of Filter Pressure , Total working Hours of UV Light, UV Florescent lamp Control with Intensity indication.
- ✓ Indicates operational hours & Installation date of Cabinet.
- ✓ Manufacturing unit compliant with ISO 13485:2003, ISO 9001 9001:2008,
- ✓ Equipment compliant with Electrical safety specification of IEC 60601-1.
- ✓ CE Compliance.
- ✓ Web based online portal to register complaints.



## Laminar Air Flow



Home Screen



UV Monitoring



## Laminar Air Flow

Model	LAF 2x2x2	LAF 4x2x2	LAF 6x2x2	Series	Traditional	X1	X2
Working Size	2 x 2 ft.	4 x 2 ft.	6 X 2 ft.	Controller	Manometer	4.3" Touch Screen	...
Product Catalog	AI-1/2-0707	AI-1/2-0708	AI-1/2-0709	Filter detection	No	Yes	...
Box Dimension in mm	609 x 609 x 609	1219 x 609 x 609	1828 x 609 x 609	Download USB Support	No	Yes	...
Weight	45kg	55 Kgs	65 Kgs	UV Light time monitoring	No	Yes	...
				Email Data Access	No	No	...

### Technical Specification

- ✓ Floor model, well-lighted, low vibration and noise, easy to manoeuvre due to castor wheel provision.
- ✓ Microprocessor Based Eye level Positioning of Touch screen for monitoring and controlling the temperature of the equipment.
- ✓ Front Panels: Removable transparent scratch resistant sheet of 6mm thickness.
- ✓ Side panels are made of dual thick transparent UV flexi glass duly framed & transparent front door, adjustable & removable made out of transparent acrylic sheet.
- ✓ Digital Display : Cabinet temperature , Filter pressure , Exhaust Fan control ,Total Time: indicate operational hours ,UV & Florescent Lamp Control with Intensity Indication.
- ✓ Audible and visual Alarms for HEPA filter failure, blower failure, airflow speed failure, Incorrect window position.
- ✓ Front Panels: Removable transparent scratch resistant sheet of 6mm thickness.
- ✓ Side Panels: Fixed transparent scratch resistant sheet of 6mm thickness.
- ✓ Equipped with fiber washable Pre-Filters .
- ✓ Stainless Steel Working Table of 18 /20 SWG lining.
- ✓ HEPA filters confirms to class 100 levels of cleanliness as per U.S. Federal Standard 209B with filtration efficiency 99.99 % removal of air born particles size at 0.3 microns as contaminant.
- ✓ Air Velocity double filtered laminar flow air blowing through the worktable at a nominal controlled velocity of approx. 90 to 100ft/per minute.
- ✓ Maintenance free Battery backup up to 24 hrs. with the life of up to 10 years for recording of thermograph.
- ✓ Indication of Battery back-up in Percentage status on information centre or Touch Screen Controller.
- ✓ The cabinet ensures for uniform UV & Florescent light intensity of 600lux.
- ✓ Overvoltage and under voltage protection circuit.
- ✓ USB port for Downloading of Thermograph through Pen Drive.
- ✓ Electrical requirements.220V to 240V, 50 Hz, 6 Amp. Single phase A.C.
- ✓ Self diagnosis & Display of Error / faults & warnings.

# Intelligent CO2 Incubator

## Application

- ✓ The purpose of a CO2 incubator is to maintain an optimal environment for cell growth, by providing carbon dioxide control in a humidified atmosphere with constant temperature
- ✓ 5%CO2 is needed to buffer the system to ensure that the normal physiological pH is maintained for optimum cell growth. CO2 will react with water to form carbonate.

## Highlights

- ✓ Highly Accurate Virtual Thermograph – The VORTEX™
- ✓ 7.1/4.3" TFT touch screen control- IRIS™ (Instantly Reportable Informatics System)- Automatically receive 7 day report of temperature in your email in accordance with global compliance
- ✓ Acoustic, Visual and SMS alarms.
- ✓ Robust Construction with ergonomically designed inbuilt CO2y handle.
- ✓ Port for Central Monitoring System for viewing the temperatures of all the blood bank equipments at same place on 10.3" Touch Screen industrial computer.
- ✓ USB port for chart downloading to pen drive\*.

## Features

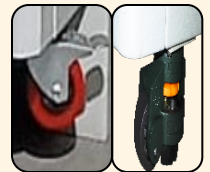
- ✓ Dual Safety Controller cum Online regular Calibrator.
- ✓ Non-invasive defrost with time & temperature guided cycle.
- ✓ 4 or more weeks Thermograph Email facility Automatically and Manually as well.
- ✓ Ethernet and Cellular Network connectivity (2G & 3G)
- ✓ Hold over time full load 1.5 hours .
- ✓ Compressor running ON/OFF cycle 35:65
- ✓ Manufacturing unit compliant with ISO 13485:2003, ISO 9001 9001:2008,
- ✓ Equipment compliant with Electrical safety specification of IEC 60601-1.
- ✓ Web based online portal to register complaints.



## CO2 Incubator



IRIS touch screen



Heavy duty Castor Wheels

## CO2 Incubator

Model	CO2 200	CO2 400	CO2 600	Series	Traditional	X1	X2
Capacity	200 Liters	400 Liters	600 Liters	Controller	Combo Controller	4.3" Touch Screen	7.1" Touch Screen
Product Catalog	AI-1/2/3-0806	AI-1/2/3-0807	AI-1/2/3-0808	Thermograph	Not Visible	Visible	Visible
External Dimension in Inches (WxDxH)	27.5x31.5x57	28x35x 75	31.5 x34x 75	Download USB Support	Yes	Yes	Yes
Box Dimension	29.5x33.5x58	30x37x76	33.5 x 36x 76	Dual Safety Controller	No	Yes	Yes
Weight	85 Kgs	150 Kgs	175 Kgs	Email Data Access	No	No	Yes

### Technical Specification

- ✓ Operating Temperature 22°C & 37°C  $\pm$  2°C , Temperature gradient  $\pm$  1° C with Accuracy of  $\pm$  1° C.
- ✓ Microprocessor Based Eye level Positioning of Touch screen for monitoring and controlling the temperature of the equipment.
- ✓ Inkless & paperless thermo-graphical chart recording system with 4 weeks chart storage capacity having Selective graph range.
- ✓ Double pane door packed toughened glass with full visibility of units without door opening, thickness of 60-70 mm.
- ✓ Internal acrylic cover for each drawer to minimize temperature loss of inside cabinet when door opens.
- ✓ RTD located in top portion of chamber in a encapsulated glycerin bottle for accurate temperature measurement.
- ✓ Ergonomically designed door handle & latch assembly that allows for easy right-or-left handed operation .
- ✓ Scratch resistant Mesh type sliding stainless SS 304 steel trays with sufficient airspace to ensure good air circulation.
- ✓ Door Key lock & Provision for padlock facility.
- ✓ Hot line around the gate of the cabinet which prevents condensate formation.
- ✓ CFC & HCFC free non-flammable refrigerants. with insulation of 60 mm thick polyurethane foam.
- ✓ Interior made from AISI 304 grade 22 SWG polished Stainless Steel.
- ✓ Sturdy galvanized C.R. sheet metal, non corrosive Grey powder coated tough exterior finish.
- ✓ Blower Positioned at 90° switches off automatically when you open the door and lamp glows for uniform lighting inside the cabinet.
- ✓ Heavy duty Lockable adjustable Castor Wheels to lock the equipment in place without moving. Ground Clearance of 100 mm.
- ✓ Condenser enhanced finned tube & forced air cooling.
- ✓ Digital Display : Actual temperature ,Door status closed/open, Compressor On/Off, High/low voltage , Mains/Power failure status.
- ✓ Optical & acoustical Alarm with mute facility : Door opening ,Power failure, temperature deviation , Sensor open/short (only visual), Compressor on/off(only visual), High/low Voltage(only visual).
- ✓ Overvoltage and under voltage protection circuit.
- ✓ USB port for Downloading of Thermograph through Pen Drive.
- ✓ Maintenance free Battery backup up to 24 hrs. with the life of up to 10 years for recording of thermograph.
- ✓ Indication of Battery back-up in Percentage status on information centre or Touch Screen Controller.
- ✓ There isn't any requirement of external software life time for configuration and access of Thermograph data collection & analysis.
- ✓ IMC (Instrument Maintenance Card ) Contains Details of Installation,PM's & Calibration Planned date with due date.
- ✓ Ventilation-enforced refrigerating machine, vibration free, hermetically sealed, energy saving, low noise, easy to service.
- ✓ Inlet air and exhaust air flow through the ventilation slits at the front and the back.
- ✓ Electrical requirements.220V to 240V, 50 Hz, 6 Amp. Single phase A.C.
- ✓ Self diagnosis of Error / faults & warnings.

This Equipment is under CE Conformity.

# Lab Centrifuge

## Application

- ✓ Lab Centrifuge Refrigerated Non Refrigerated is a device that is used for the separation of fluids, gas or liquid, based on density.
- ✓ Separation is achieved by spinning a vessel containing material at high speed; the centrifugal force pushes heavier materials to the outside of the vessel.
- ✓ Centrifugation can be employed to separate a mixture of two different miscible liquids.
- ✓ This technique can also be used in order to study and analyse macromolecules and their hydrodynamic properties.
- ✓ Mammalian cells can be purified with the help of a special type of centrifuge.



## Highlights

- ✓ 4.3" TFT HMI touch screen control- IRIS™ (Instantly Reportable Informatics System)- Automatically receive 7 day report of temperature in your email in accordance with global compliance
- ✓ Acoustic and Visual alarms.
- ✓ Bar Code assistance for stock maintenance.
- ✓ Robust Construction with ergonomically design.
- ✓ Port for Central Monitoring System for viewing the temperatures of all the blood bank equipments at same place on 10.3" Touch Screen industrial computer.
- ✓ USB port for chart downloading to pen drive\*.

## Features

- ✓ Fully automatic controlled with HMI 4.3" touch screen.
- ✓ Non-invasive defrost with time & temperature guided cycle.
- ✓ Barcode scanner for Bag event recording
- ✓ Issuing & withdrawal of Blood bags through Barcode scanner and its History Sheet monitoring cum Emailing Facility.
- ✓ Maximum speed 5500 rpm Maximum RCF (Relative Centrifugal force) for blood bags: 4574 g.
- ✓ Protection & Alarm, in event of power interruption or complete failure, data remain stored in memory. Password Protection to prevent unintentional switch off and also unauthorized opening of the equipment.
- ✓ Manufacturing unit compliant with ISO 13485:2003, ISO 9001 9001:2008,
- ✓ Equipment compliant with Electrical safety specification of IEC 60601-1.
- ✓ 4 digit CE-1354 Notified Body by European union/commission.
- ✓ Web based online portal to register complaints.

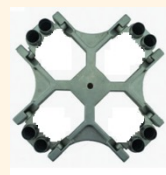
## Lab Centrifuge



24 tubes  
Adapter



16 tubes  
Adapter



8 tubes  
Adapter

# Lab Centrifuge

Model	LC 08	LC 16	LC 24	Series	Traditional	X1	X2
Capacity	08 Tubes	16 Tubes	24 Tubes	Controller	HMI 4.3"	4.3" Touch Screen	7.1" Touch Screen
Product Catalog	AI-200705A	AI-200705B	AI-200705C	Auto Operated door	No	Yes	Yes
RPM	5500	5500	5500	Tube Size 15 to 50 ml	No	Yes	Yes
External Dimension in mm (WxDxH)	390 x455x365	390 x455x365	390 x455x365	Barcode Facility	No	Yes	Yes
Box Dimension	500 x 500 x 500	500 x 500 x 500	500 x 500 x 500	Three Level Safety Provision	Yes	Yes	Yes
Weight	20 kg	25 kg	25 kg				

## Technical Specification

- ✓ **Operating Temperature** -20 to +40°C, in ambient temp. of +10 to +40°C with relative humidity of 90% ,Temperature gradient  $\pm 1^\circ\text{C}$  , Accuracy of  $\pm 1^\circ\text{C}$ .
- ✓ **Microprocessor Based** Touch screen for monitoring and controlling the temperature of the equipment.
- ✓ Floor standing Refrigerated or Non refrigerated centrifuge models.
- ✓ **Maximum speed 5500 rpm** Maximum RCF (Relative Centrifugal force) for blood bags: **4574 g**. Programmable time 0 minute to 59.99 hours with minimum resolution of 0.1 minute. With Minimum Count of 10 Rpm.
- ✓ **Programmable** memory with tamper proof facility with ability to store more than 10 Programs.
- ✓ **Predefined program** and parameter stored in the memory.
- ✓ **Digital display** (real time and set target) of temperature, speed, acceleration time, deceleration time, real time and processing RCF with minimum no. of 4 digit resolution.
- ✓ **sturdy all-steel design** with stainless steel rotor & chamber, easy to clean, corrosion resistant paintings, provision of both drain and condensed water collection container.
- ✓ **Optical & acoustical Alarm** : lid interlock ,Sensor open/short (only visual), imbalance detection, over temperature, rotor over speed.
- ✓ **Swing-out buckets**, Swing-out tube adapters available in 08/16/24 tubes of 15 to 50 ml.
- ✓ **Motor Imbalance detection**, automatic shutdown of centrifuge if rotor load difference on opposite sides .Also have the facility to stop the machine at anytime Soft touch of emergency /Main break.
- ✓ **Protection & Alarm**, in event of power interruption or complete failure, data remain stored in memory. Password Protection to prevent unintentional switch off and also unauthorized opening of the equipment.
- ✓ **Acceleration** and declaration profiles are independently adjustable with nine brake levels and option for free coasting.
- ✓ **Provision for** Eternal or Central Monitoring device connectivity.
- ✓ **CFC & HCFC free** non-flammable refrigerants. ( in Refrigerated Centrifuges )
- ✓ Interior made from AISI 304 grade 22 SWG polished Stainless Steel.
- ✓ Sturdy galvanized C.R. sheet metal, non corrosive Grey powder coated tough exterior finish.
- ✓ Condenser enhanced finned tube & forced air cooling.
- ✓ **Noise & Vibration** is negligible  $\leq 55 \text{ dB}$ .
- ✓ **Safety features** : Equipped with Vibration Sensor to monitor abnormal vibration. automatic shutdown of centrifuge if rotor load is out of balance with appropriate indicator. Motion sensors drives unbalance detection. internal safety relays to automatic shutdown of machines while any accidental situations.
- ✓ **Electrical Lock** : Lid/door automatic Electrical safety lock to avoid opening of lid while on running conditions. during power failure the safety lid lock remains closed during run as long as rotor moving also with provision of mechanical opening.
- ✓ Ventilation-enforced refrigerating machine, vibration free, hermetically sealed, energy saving, low noise, easy to service, Inlet air and exhaust air flow through the ventilation slits at the front and the back.
- ✓ Voltage Stabilizer to be provided with each unit of 10KVA, I/P : 160-260Volts O/p : 220-240 Volts ,Power Cord of 1.5 Meter with 16 Amp top (Optional)
- ✓ Electrical requirements. 220V to 240V, 50 Hz, 5 Amp. Single phase A.C.



# Authentic Instruments

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