



LABORATORY DEEP FREEZER

Labtop freezers are designed for storing of blood component , Vaccine , serums , Biological and medical specimens These freezers are also commonly used in several research organizations, medical centres, research laboratories and pharmaceutical industries for storage of micro organisms and other chemicals at - 20.0°C

Labtop Freezer are exclusively used in Pharmaceutical manufacturing, Biotechnology, Personal product manufacturing, Hospitals and Research centers, Clinical research, Seed Industries, Research and development Laboratories ,Universities and extensively used Quality control, Microbiology , Pathology Labs etc.. Labtop chambers conform to International Standards such as ICH, WHO Guideline, and USFDA requirements

CABINET CONSTRUCTION

The cabinet of Labtop Chambers is insulated with high density CFC free Poly Urethane Foam. Interior of the chambers are mirror finish stainless Steel (304 SS, 1.0 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 (Inside S. S 304 with mirror finish and outside. S.S 304 dull finish and inner S.S316 is also available on request at extra cost) and the unit is mounted on caster wheels for ease of mobility

REFRIGERATION SYSTEM

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



- CFC free Eco friendly refrigeration system
- 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

SAFETY FEATURES

- Miniature circuit breaker to protect electronic components in case of abnormal power supply
- Audio visual alarm when temperature deviates from set temperature
- Provision for mobile alert via GSM technology
- Overload protector for safeguard the compressor
- 180 seconds time delay for compressor switch ON

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, Relative Humidity, Standby systems and event management with less maintenance hence no moving parts.



- 4.3" HMI with color Display and touch screen
- Configurable access for 72 users
- Privilege based grouping
- Multi level Password protected **H**uman **M**achine Interface (HMI)
- Data storage to record set values, process values, date & time with variable time intervals
- High speed Ethernet connectivity
- Incorrect password attempt and user lock
- Online data can be printed with date and time stamp
- Non operational screen auto logout
- Configurable maintenance reminder pop up alarm
- Individual Alfa numeric user ID and password
- User operation will be recorded and saved in memory
- Online and offline Log reports on HMI
- Safety cut off for over shoot and under shoot
- Programmable alarms with event management
- Data storage capacity up to 200000 readings
- Self diagnostic system with error messages

ALERT MANAGEMENT

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

TEMPERATURE CONTROL SYSTEM



- Micro-control based Temperature controller
- 4 digit, 7 segment LED display
- Audio visual alarm when the temperature deviates from the set temperature.
- Password protected keypad lock
- Visual alarm for faulty sensor
- Display of set temperature and process temperature
- High quality PT-100 sensor for better accuracy
- Temperature alarm system with adjustable high-low alarm limits.

SALIENT FEATURES

- Specially designed solid stainless steel wire mesh trays ensure even temperature distribution.
- Foamed in place CFC free PUF insulation ensures temperature stability and reduced power consumption.
- 50 mm validation port for inserting sensor
- Caster wheels for ease of mobility
- Various accessories available as option
- Height adjustable trays
- High quality PT-100 Sensor for better accuracy

OPTIONAL ACCESSORIES

Temperature Data Scanners

8 /16 Channel programmable temperature Data Scanner for record, store and print the data online and off line with variable print time intervals, suitable for 80 col. Dot matrix printer.

PLC system

Programmable Logic Control with Safety controller, auto changeover of standby systems & other event managements with 4.3" Color HMI with touch screen, Ethernet connectivity and security lock for prevention of unauthorized tampering.

PC interface communication

Micro controller based PID controller to record, store and print the set values, process values, Date & time with variable print time intervals with RS-485 communications for PC interface

Software

"LABTOP DATALINK" CFR 21 Part 11 compliance communication software for data management. Complete with RS-485 multi dropping to monitor multiple chambers to one software

Mobile alert

Mobile alert via GSM Technology in case of system failure

Door access

Biometric magnetic door access for secured door opening with software to maintain log record

Power Backup

Uninterrupted online power supply for PLC in case of power failure

Trays

Additional rack and tray suitable for above equipment as per your requirement

DOCUMENTATION

LABTOP offers IQ, OQ, PQ and DQ validation with documentation, reports, calibration and test certificates.

CALIBRATION

The equipment is calibrated with the help of master calibrator, which is certified for its accuracy by Electronics Regional Testing Laboratory (ERTL West) Government of India recognized testing laboratory with traceable reference to National Physical Laboratories (NPL).

SERVICE AND SUPPORT

The training undertaken by our Channel partners and engineers is of the highest standard in the industry, ensuring that our customers are supported by the highest level of technical expertise and as such can be assured that their equipment will perform to the standards required at all times.

Our wide network of Engineers/Technicians enables us to respond to any technical query, ensuring that our customers receive the maximum benefit from their equipment.

NB: Specifications are subject to change without prior notice.



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