



The LABTOP[®] Laboratory refrigerators are available in a variety of configurations providing alternatives between cabinet capacity, control capability.

General Features

Applications include refrigerated storage of Vaccines, Reagents, Cultures, Medicines and Blood samples. Temperature range adjustable from 2.0 to 8.0° C with micro controller based temperature controller includes digital temperature display of set value and process value. Forced air circulation for maximum temperature uniformity. Temperature alarm system with adjustable high/low alarm limits, includes audible and visual warning.

Cabinet Construction and Refrigeration System

The cabinet of Laptop laboratory refrigerators are insulated with high density CFC free Poly Urethane Foam. Interior of chamber is mirror finish resistant stainless Steel (304, 0.8 mm thick). The exterior is white powder coated (1.0 mm thick) Mild Steel and the door has a magnetic gasket with a keyed lock. Stainless steel trays are provided for storage inside. The cooling is effected by a hermitically sealed compressor of high quality. Complete Unit in total stainless steel (Inside S S 316, 0.8 mm thick and outside S S 304, 1mm tick) is also manufactured by Skylab.

LABORATORY REFRIGERATOR

Special Features

- ✓ Micro-controller controls the internal temperature within ± 0.5 °C
- ✓ Unique air flow system ensures even temperature distribution.
- ✓ Foamed in place CFC free PUF insulation ensures temperature stability and reduced power consumption.
- ✓ Audio visual alarm when the temperature deviates from the pre set temperature.
- ✓ Specially designed Stainless steel trays ensure even temperature distribution.
- ✓ Directional air flow assures quick recovery after door openings.

Technical Specification:-

Model	LLR-170/170 G*	LLR-290/290 G*	LLR-350/350 G*	LLR-450/450 G*	LLR-600/600 G*	LLR-800/800 G*	LLR-1000/100 G*
Temperature Range	2°C - 8°C	2°C - 8°C	2°C - 8°C	2°C - 8°C	2°C - 8°C	2°C - 8°C	2°C - 8°C
Accuracy	± 0.5 °C	± 0.5 °C	± 0.5 °C	± 0.5 °C	± 0.5 °C	± 0.5 °C	± 0.5 °C
Inner size(WXDXH)	50x43x85cms.	56x47x112cms.	58x51x120cms.	64x58x122cms	68x61x146cms	90x61x146cms	115x60x146cms
Outer size (WXDXH)	63x65x144cms.	68x71x165cms.	76x75x176cms.	75x82x178cms	80x81x207cms	103x85x207cms	128x84x207cms
Volume	170 Liters	290Liters.	350 Liters.	450 Liters	600 Liters	800 Liters	1000 Liters
No. of Trays	Three	Four	Four	Four	Five	Five	Ten
Operating Voltage	230 V AC	230 V AC	230 V AC	230 V AC	230 V AC	230 V AC	230 V AC

Optional Accessories

Stand by Refrigeration system

Ready to use stand by refrigeration system in case of regular system fails. this includes Compressor, Evaporator, condensers and other accessories.



Software

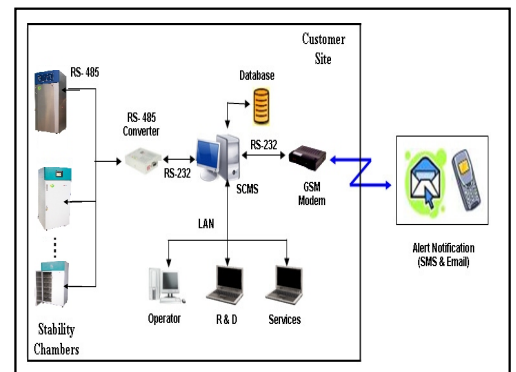
CFR 21 Part 11 compliance web based communication software for data management. Complete with RS 485 multi dropping to monitor multiple chambers to one software.

Printer Interface

Facility to store, print records on printer with set values, Process values, date and time with variable print time interval. Data storage facility to print the data online and off line, suitable for 80 col. Dot matrix printer.

PC Inter face and data management

PC Interface with communication allows remote monitoring and data logging to control the chamber. Web based software having reports in tabular as well as graphical form.



Data Scanner

Data Scanner 8 Channel temperature scanner complete with sensors and printer interface and data storage facility.



PLC System

For auto changeover of stand by systems and other event managements with 3.7" LCD display with touch screen



Documentation

For GMP complaint models 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).

*GMP Model : Inside Stainless Steel 316, 0.8mm thick and outside Stainless Steel 304, 1.0mm thick.
Standard model: Inside Stainless Steel 304, 0.8mm thick and outside mild steel 1.0mm powder coated.

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