

MODEL NO.: YSI-442

YSI LABORATORY BIOLOGICAL INCUBATOR SUPER DELUXE

—Environmental Studies (Environmental Chamber/ Growth Chamber) Phytotron.

These are well designed for conducting different Laboratory & Research experiments to study growth of plants and animals under controlled environmental conditions and also in the fields of enzymatic digestion processes, incubation etc.

Construction :

Robust construction. Interior made of polished S.S. sheet, intermediate walls of S.S. Sheet and Outer cabinet is made of M.S. Sheet duly pre-treated & finished with epoxy powder paint. PUF insulation is provided to prevent thermal losses. Double walled door with a gasket seals the inner chamber from outside air. Viewing glass window allows inspection of samples without opening the door or disturbing the temperature. 3 Nos. Stainless Steel adjustable shelves are provided. Air ventilation and arrangement to introduce fresh air supply.

Cooling/Heating System :

Cooling is achieved by Environment friendly CFC free refrigerant, refrigeration system using a hermetically sealed air cooled compressor and other parts of high quality. This system is fixed at the lower part of the incubator. Cooling coil is fixed in the rear/side portion of the chamber in the path of moving air.

Heating is provided with Air heaters duly insulated from the body & are fixed near the cooling coil. The blower circulate the air into chamber through heaters/cooling coils to ensure uniformity of temperature inside the chamber.

Temperature. Control :

Temperature is controlled by solid state Digital Temperature Controller cum Indicator digital display using Pt 100 RTD sensor device. Temp. range 1°C to 50°C \pm 1°C.

Humidification :

It is controlled by humidistat and is achieved by spraying water vapour inside the chamber with the help of pump/air compressor or through steam generation. This system creates the required humidity from ambient to 95% \pm 3% RH. Arrangement exists only for increasing the humidity & not for dehumidification.



Illumination :

High intensity illumination of approx 12000 LUX is provided inside the chamber by fluorescent tubes, cyclically creating day/night conditions automatically controlled through 24 hrs. timer.

Control Panel :

All control, except humidistat, are fitted in the front panel for indication of temperature humidity, illumination, timer, etc. & are easily accessible.

Power Supply :

Suitable to work on 230 Volts, 50 Hz, Single Phase, AC supply.

Available in following chamber sizes :

W	x	H	x	D	No. of Shelves
665	x	856	x	550 mm	3
765	x	1365	x	670 mm	4

Optional Accessories :

- Voltage Stabilizer 5 KVA
- Two set point digital temp. controller cum indicator.

TEMPERATURE CONTROL