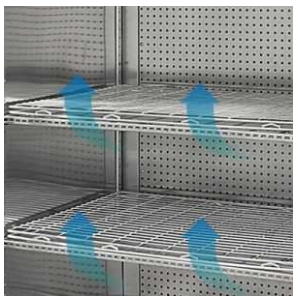


CONSTANT TEMPERATURE AND HUMIDITY TEST CHAMBER



OLSC
(OLSC-117 Series)



This series of product is high-precision thermostatic equipment with functions of illumination and humidification. It is widely used in plant cultivation, seed germination, seed growing, histolytic and microbe culturing, as well as small animal raising and other temperature and humidity experiments. It is the perfect equipment for production and research of biology, agriculture, forestry, genetic engineering and graziery departments.

CONSTANT TEMPERATURE AND HUMIDITY TEST CHAMBER

OLSC-117 Series



Product Overview

It is suitable for the adaptability test of electrical, electronic, instrumentation and other products, parts and materials during storage, transportation and use in high temperature environment. It is reliability test equipment for various electronic, electrical, plastic raw materials and other materials during heat resistance, moisture resistance, dryness resistance test and quality control engineering.



Product Features

The box body is processed by CNC machine tools, with beautiful and elegant shape, and adopts non-reaction handles for easy operation; The inner shell of the chamber is made of stainless steel, and the outer shell of the box is made of A3 steel plate sprayed with plastic, which increases the appearance texture and cleanliness; The large observation window with lighting keeps the chamber bright, and the embedded tempered glass in the heating body is used to clearly observe the situation inside the box at any time; There is a test hole with a diameter of 50mm on each side of the box, which can be used for external test power and signal lines at the same time to prevent mutual interference.

Humidity control range

10% RH to 98% RH

Controller & Program Features

- Programmable PLC-based control with in-built memory for multiple programs.
- Self-monitored digital measuring and control system for precise regulation.
- Designed specifically for environmental test systems with high accuracy.
- Efficient PLC coordinates and monitors all chamber functions and provides operational fault diagnostics.
- Color Touch Panel Display with graphical & tabular representation of readings.
- Convenient input of fixed values and program operations.
- Graphic display of set points, actual values, operating time, and remaining cycles.
- Communication Interfaces: Ethernet, USB.
- Help function for user assistance.
- Safety Features: Password protection Lockable physical control panel Audible & visual alarm system
- Condensation Protection: Automatic evaporator-based system prevents sample condensation between -40°C and +60°C.

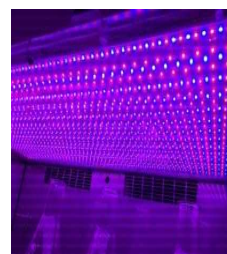
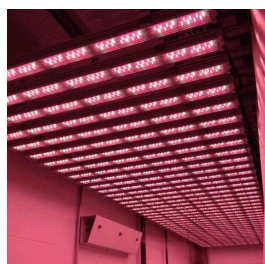


Optional accessories

Cable port .Shelves. Ro water purifier:80/Ro-type water purifier(R-80) .Dehumidifier .Temperature and humidity recorder . Defrosting circuit .Liquid or infection



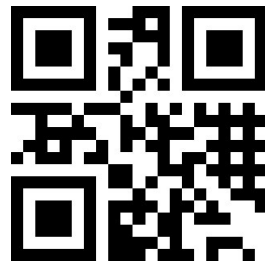
Model	OLSC-117-35
Temperature range	-70°C to +180°C
Humidity range	10 to 98%R.H
Temperature fluctuation	±0.5°C
Dimension (mm) (WxHxD)	1100 x 1000x 1000 mm
Temperature uniformity	±1.0°C
Humidity uniformity	±3.0%R.H
Heating rate	2.0°C/minute
Cooling rate	2.0°C/minute (as per IEC 60068-3-5)
Inner chamber material	Stainless Steel 304 (Grade 1.4301 / SUS304)
outer chamber material	Constructed from galvanized steel sheets, zinc-coated and epoxy powder-painted for corrosion protection
Insulation material	Rigid polyurethane foam insulation layer, flame retardant grade B2
Refrigeration system	Air-cooled refrigeration using eco-friendly refrigerant With GWP ≤ 150 and ODP = 0.00 (CFC/HCFC-free)
Controller	Advanced microprocessor-based PLC with touchscreen display, multi-program control, real-time monitoring, data logging (USB/Ethernet), password protection, alarms.
Protection device	Over-temperature protection, compressor overload and overheating, high-voltage protection, motor over-current protection, over-temperature protection relay, fan overload protection, fuse, dry-burning protector, water shortage protector, alarm action
Backup UPS	4hrs backup
Fault Diagnosis System	Self-diagnostic software for real-time fault detection and easy maintenance
Operating ambient temperature	+5°C to +35°C
Equipment power	16.Kg
Access ports	Two access ports (minimum 50 mm diameter) located on both side walls
Power supply	(230V/415V, 50Hz)
Door	Single fully-insulated hinged door with high-quality sealing gasket, built-in heated observation window (300×300 mm), full opening for easy sample access, and secure lock-and-key system.
Lighting	Internal test space illumination for specimen observation.
Sensor System	Humidity measured by psychrometric method using two Pt100 sensors (DIN IEC 751) — dry & wet bulb configuration with self-cleaning mechanism. Sensors positioned for optimized re-circulating airflow.





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