YORLAB® CO2 INCUBATOR (NEW)
Model No.: YSL / YSI-449

Specifications:

- YORLAB Co_2 Incubators are designed for wide range of applications in biomedical, pharmaceutical and clinical laboratories i.e flabs all YORLAB Co_2 Incubator feature an option of selection between SS 304 and copper-enriched alloy interior with inherent germicidal protection against contamination and Direct Heat and Air jacket/Water jacket temperature control for accurate, uniform in vitro modeling of the in vivo environment.

Continuous Contamination Control UV Light. The Co_2 incubator incorporates a Programmable Ultraviolet Lamp, isolated from cell cultures, that sterilizes conditioned air and humidity water reservoir water to avoid contamination without disturbing cell cultures in vitro.

CU/SS 304 Construction for Germicidal Protection.

Copper enriched stainless steel alloy interior surfaces eliminate contamination sources and mitigate the affects of airborne contaminants introduced through normal use.

Direct Heat and Air Jacketed Heating System.

The Direct Heat and Air jacket surrounds the inner walls with a natural convection air flow that converts to radiant wall heat through thermal conduction.

This technique achieves accurate, uniform and highly responsive temperature control within the chamber.

Infrared Co_2 Control System.

The YORLAB dual beam infrared Co_2 system is linked to microprocessor controller with a sophisticated PID algorithm. This ensures Ultra-Fast recovery without overshoot and accurate Co_2 averages during periods of frequent Co_2 incubator access with multiple door openings.

Control, Alarm And Monitoring

All instrument functions including the temperature, Co_2 % and Humidity % of the incubator are programmable with a facility for a settable alarm for each parameter.

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- The easy to read 4 line blue LCD display with all set and process temperature, Co_2, and Humidity % and visual alarm for each parameter incorporated.

Rapid Response Class 100.

- Product yields and reliability can be affected by airborne contamination costing you time and money. Class 100 HEPA Filter Flow System (optional) air quality contributes to an ideal culturing environment.

Specifications

Temperature	
Control	± 0.1°C
Range	5°C above ambient to 50°C
Uniformity	± 0.3°C @ 37°C (98.6F)
Tracking Alarm	User-Programmable
Over Temperature	
Sensor	RTD (Pt100)
Setability	0. 1°C
Function	Shuts of heat
Temperature Safety Sensor	Independent RTD (PT 100)
Controller	Independent Micro Controller
Sterilization Cycle	
Sensor	24 hours time
Sterilization Cycle (optional)	
Sensor	RTD (PT 100)
Cycle Temperature	140°C (284F)
Cycle Length	12 hours
Co_2	
Control	Better than ± 0.1%
Range	0-20%
Inlet Pressure	15 PSIG (1.0 bar)
Sensor	IR
Readability and Setability	0.1%
Tracking Alarm	User Programmable.
Humidity	
RH	Ambient to 100% @ 37°C (98.6F)
Humidity Pan	5.0 liters
Display	In 0.1% increments
Fittings	
Access Port	1.3" (3.3cm) with removable silicon plug with filter
Co_2, Inlet	1/4" hose
Unit Heat load	500 watts

Display (Control Panel)

Shelves	
Dimension	14" x 16"
Construction	Stainless Steel, Perforated
Surface Area	1.55 sq.ft.
Max. per Chamber	22.5 sq. ft.
Standard, maximum	4, 15
Construction	
Interior Volume	5.25 cu.ft (150 liters)
Interior	Type 304, polished Stainless Steel.
Exterior	20 gauge, cold-rolled steel, powder coated.
Outer Door Gasket	Four-sided, molded, magnetic vinyl.
Inner Door Gasket	Removable, cleanable Feather-edged, Silicone
Electrical	
Operating Voltage	230V, 50Hz
Data Outputs	RS232/RS485, Printer Output (optional)
Dimensions	
Exterior	26.5"Wx 38" H x 24" L
Interior	18" Wx 24" H x 18" L

At one glance

- Compact, Ergonomic Overall Design
- Direct Heat and Air Jacketed Temperature Control
- Cu/SS enriched Contamination resistant interiors
- UV protection for Contamination Control
- Precise P.L.D Enhanced CO_2 recovery
- High performance Control, Monitoring and Alarm Functions
- Infra Red CO_2 sensor
- Menu driven through microprocessor
- User Selectable single/profile control mode
- In built Real Time Clock
- Data Retentive Time for both UV and process