

YORK WATER JACKET CO2 INCUBATOR Model No.: YSI-449(EXWJ)



Specifications:

YORK Co₂ Incubators are designed for wide range of applications in biomedical, pharmaceutical and clinical laboratories i.e labs all YORK Co₂ Incubator feature an option of selection between SS 304 and alloy interior with inherent germicidal protection against contamination and Direct Heat or Air jacket/Water jacket temperature control for accurate, uniform in vitro modeling of the in vivo environment.

Continuous Contamination Control UV Light. The ${\rm Co_2}$ 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.



 Stainless steel alloy interior surfaces eliminate contamination sources and mitigate the affects of airborne contaminants introduced through normal use. Outer solid door with inner glass door for observation.

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 Co₂ Control System.



The YORK dual beam infrared Co₂ system is linked to microprocessor controller with a sophisticated PID algorithm. This ensures Ultra-Fast recovery without overshoot and accurate Co₂ 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.

• 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.

Continued on.....

YORK WATER JACKET CO2 INCUBATOR Model No.: YSI-449(EXWJ)

Specifications:

 Capacity 150,200,250, 350, 550,

650,750 Liters Water Jacket Volume 10-15L

Temperature Control ± 0.1°C 5°C above ambient to Range

60°C

Uniformity ± 0.2 or 0.3℃ @ 37℃

(98.6F)

Environment temp. 10°C-35°C

Tracking Alarm User-Programmable high/low Over

Temperature

Programmable speed Time/speed/temp.

Shaker Speed accuracy Shaker Speed Increment ±1

RTD (Pt100) Sensor

Readability & Stability 0.1%

Function Shuts of heat

Temperature Safety Sensor Independent RTD (PT

100)

Controller Independent Micro Controller

Sterilization Cycle (Optional)

Sensor 24 hours time Sensor RTD (PT100) Cycle Temperature 140°C (284F) Cycle Length 12 hours

Co,

Control Better than $\pm 0.1\%$

0-20% Range

Inlet Pressure 15 PSIG (1.0 bar)

Sensor Readability and Stability +0.1%

Tracking Alarm

Humidity RH

Humidity Pan Display

Working Environment

Fittings

1.3" (3.3cm) with Access Port removable silicon plug

> with filter 1/4" hose

> > 500 watts

(98.6F)

<80%

5.0 liters

User Programmable.

In % increments

Ambient to 90% @ 37°C

Co₂, Inlet Unit Heat load

Shelves

Dimension As per chamber size 304Stainless Steel, Construction Perforated

Surface Area 1.55 sq.ft. or as per inner



chamber capacity Max.perChamber 22.5 sq. ft./or as per inner chamber capacity

Construction

Interior Type 304, polished

Stainless Steel.

Exterior 18 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

Interior cap.: 125, 150, 200, 250, 350, 550, 650 & 750 L

Incubator chamber individually-controlled heating circuits in every wall-aided (6 sided direct heating)

"Fan Less" design to reduce chance of contamination, reduce noise level, minimum air turbulence and bigger usable capacity.

Heating system - Microprocessor controlled heating elements.

Fast CO2 recovery of less than 5 min after 30 sec single door opening and closing event.

System BMS relays built in.

Working altitude sea level-2,400m.

Separate single inner glass door with an option to Retrofit/field upgrade with 4 or 5 segmented inner glass doors later

Option to Retrofit/field upgrade to change Door handle position later.

At one glance

Compact, Ergonomic Overall Design

Direct Heat and Temperature Control

SS enriched Contamination resistant interiors

UV protection for Contamination Control

Precise P.L.D Enhanced CO₂ recovery

High performance Control, Monitoring and Alarm Functions

Infra Red CO, sensor

Menu driven through microprocessor

User Selectable single/profile control mode

In built Real Time Clock

Adjustable, perforated stainless steel shelves, No of shelves 3 shelves

Data Retentive Time for both UV and process

Interior lighting - LED

Optional Accessories:

Co2 gas cylinder 50kg

Co2 cylinder dual stage Regulator & connection tube.