

Nuair In-VitroCell ES NU-5800 Direct Heat Laboratory CO2 Incubator

The In-VitroCell ES NU-5800 Direct Heat Laboratory CO2 Incubator is designed to provide a controlled in-vitro environment by providing the desired functionality needed to encourage cell culture growth for research at or near body temperature.

Rating: Not Rated Yet

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Manufacturer [Nuair](#)

Description



Touch Screen Color Display Offers easy system operation and various menu/function selection



Temperature Controller Controls overall temperature and environment

- [Features](#)

Features

Technologies

NuTouch Intelligent Interface

A microcomputer and color touchscreen allows users to maintain the CO2 Incubator growth chamber with the touch of a finger. Designed for high user adoption, NuTouch utilizes familiar icons and text allowing users to easily control chamber parameters. Onscreen descriptions and step-by-step directions are available for icons or operations that may not be familiar. NuTouch monitors the incubator at all times and informs users with status indicators, alarm menus, and maintenance reminders while the incubator is in operation. An onscreen historical performance monitor is available to view any large variations in gas or temperature. Service settings and diagnostic controls are offered for service personnel.

Available in English, French, German, and Spanish (More to come)

Infrared (IR) Sensor

A microprocessor-based, non-dispersive, single source dual wave infrared (IR) sensor monitors and controls CO₂ levels inside the growth

chamber. Wavelengths are only absorbed by CO₂ making measurement insensitive to other components, such as water vapor. The stable IR sensor has a controlled range of 0.1 to 20% accurate within 0.1%.

Constant Contamination Control (C³)

Closed Loop HEPA Filtration

A maintenance free air pump continuously draws environmental samples from two locations inside the chamber and passes the sample through a 99.99% HEPA filter before entering the sensor bay to measure gas. The IR sensor measures CO₂ gas levels from the sample to monitor before injecting back into the growth chamber. The NuTouch Electronic Control system will then determine the appropriate course of action to maintain chamber set-point conditions by placing the system on standby or injecting 99.99% HEPA filtered CO₂ gas or air into the growth environment.

ISO Class 5 Cleanroom Conditions

Based on clean room technology, In-VitroCell maintains the growth chamber at positive pressure similar to an ISO Class 5 Clean room to slow airflow to minimize desiccation. Anytime the chamber door is open to the laboratory environment, clean HEPA filtered will be forced out instead of contaminated lab air being drawn in.

Temperature Uniformity

The chamber walls are surrounded by five (5) heating elements to

control temperature. A door heater is separately controlled to minimize condensation on the inner chamber door. The heating elements are wrapped in a high density R5 insulation to maintain temperature integrity. Dual temperature sensor probes monitor and control temperature set points to ensure consistency and uniformity throughout the chamber.

Advanced Construction

Attention to Proper Materials and Construction Methods

The inner chamber is constructed of high grade 16 gauge, type 304L polished stainless steel using crevice-free construction that provides an easily cleanable inert surface that does NOT promote biological growth. Seamless coved interior corners are easily cleaned promoting a healthy growth chamber. A single piece gasket creates a liquid tight seal from incubator chamber to inner door to eliminate condensation build up and potential contamination. Inner chamber shelving and gasket may be removed and routinely autoclaved if desired.

Small Footprint, Incredibly Large Useable Space

A large 7 cubic foot (200 Litre) growth chamber comes standard with four incubator shelves with a maximum capacity of 23 shelves. By attaching heating elements directly to the chamber and insulating with High Density R5 insulation In-VitroCell was engineered as a compact design while maximizing chamber capacity.

Upgrade Your System

CuVerro® Antimicrobial Copper Surfaces (*Optional Feature*)

Add CuVerro® Antimicrobial Copper Surfaces to the incubator growth chamber and/or shelving to kill bacteria* to minimize potential incubator contamination. CuVerro® is laboratory tested and EPA registered. CuVerro® Antimicrobial Copper Surfaces kill more than 99.9% of bacteria* within 2 hours, and continues to kill 99% of bacteria* even after repeated contamination, when cleaned regularly.

EPA Reg No 85353-5

EPA Est No 088257-MN-001

*Laboratory testing shows that, when cleaned regularly, CuVerro® antimicrobial copper surfaces kill greater than 99.9% of the following bacteria within 2 hours of exposure: MRSA, Staphylococcus aureus, Enterobacter aerogenes, Pseudomonas aeruginosa, and E. coli O157:H7. CuVerro® antimicrobial copper surfaces are a supplement to and not a substitute for standard infection control practices and have been shown to reduce microbial contamination, but do not necessarily prevent cross contamination; users must continue to follow all current infection control practices, including those practices related to cleaning and disinfection of environmental surfaces.

Standard Features

Four (4) Stainless Steel Shelves

Eight (8) Stainless Steel

Shelf Brackets

Shelf Guides

Right Hinge Door Swing

Remote Alarm Output Contacts

4 to 20 mA Analog Output

RS-485 Communication

USB Port

CO2 Sample Port

Adjustable Leg Levelers

Access Port and plug with breather holes

One (1) Water Pan

One (1) 6.5 ft. / 2 m Electrical Cord

Optional Features

CuVerro® Antimicrobial Copper Surfaces

Automatic CO₂ Tank Switch (External)

CO₂ Tank Alarm

Left Hinge Door Swing

Additional Shelves with Slide Brackets

CO₂ Analyzer Fyrite Kit (Dry) 0-20%

Replacement Fluid for CO₂ Analyzer

Surge Protector

CO₂ Regulator (2 Stage)

Custom Solutions

Reviews

There are yet no reviews for this product.