Nuaire In-VitroCell ES NU-5700 (160L) Direct Heat CO2 Incubator

Comes standard with a dual wave infrared sensor to control CO2 gas levels for optimal growth conditions at or near body temperature. Quality and reliability have been carefully designed and built into the NuAire ES NU-5700, offering the ideal in-vitro environment where optimized tissue cell growth is of the utmost importance.

Rating: Not Rated Yet

Ask a question about this product

Manufacturer Nuaire

Description

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- Specifications

Description

In-VitroCell™ ES NU-5700 Direct Heat CO2 Incubator uses direct heating elements that surround the growth chamber to maintain set point temperature. Model NU-5700 comes standard with a dual wave infrared (IR) sensor to control CO2 gas levels creating optimal growth conditions at or near body temperature.

Quality and reliability have been carefully designed and built into the NuAire ES NU-5700, offering the ideal in-vitro environment where optimized tissue cell growth is of the utmost importance. Incredibly reliable and advanced computer technology provides the ability to precisely manage the CO_2 gas control system and temperature to achieve the precise requirements for sensitive cell cultures.

Constant Contamination Control

Closed Loop HEPA Filtration

Using the rigorous standards of an ISO Class 5 Clean Room's environment, the In-VitroCellTM CO_2 incubators have been engineered to keep contamination to a minimum. All gas and air are passed through 99.99% HEPA filters before entering the growth chamber, ensuring a sterile environment. To help prevent cell desiccation, chamber air cycles through one air change at 30-minute intervals. An extremely sensitive sensor bay constantly monitors the chamber environment, making necessary adjustments to maintain consistency.

Coved Interior Corner

Contaminants are quickly eliminated from the interior growth chamber, thanks to the rounded corners and smooth surface.

Technology

NuTouch (Touchscreen) Electronic Control System (ECS)

Four different languages (English, French, Spanish and German) and a 5x7 inch (127x178 mm), standard on each In-VitroCell incubator allow users to easily view and control the system with the touch of a finger. Quickly access system parameters such as set points and monitor temperature history and carbon dioxide graphs right on the screen (USB download capable). Readily update the chamber environment with preset service settings. Continuously monitor system status on the color screen while the incubator is in standby mode, making chamber adjustments or sampling air.

Sensitivity and Accuracy of Gas Control

A highly selective single source dual wave infrared (IR) sensor allows for incredibly sensitive and accurate CO_2 control (within $\pm 0.1\%$). Located in the sensor bay, this microprocessor-based IR sensor's wavelengths are specifically absorbed by CO_2 , making it impervious to input from other elements such as water vapor, allowing for a highly stable output and minimizing the need for frequent calibrations.

Performance

Temperature Uniformity

Optimum uniformity is achieved through the use of R5 insulation-wrapped foil heating elements surrounding a 5.7 cubic foot growth chamber. Specially designed dual temperature sensor probes continuously monitor and send information to the NuTouch ECS, making any needed adjustments. Temperature uniformity is maintained throughout the chamber with accuracy to within ±0.3°C.

Heat Recovery

Quick heat recovery at 0.12°C per minute allows a rapid return to set point temperature.

Humidity Contro

Through the use of a stainless steel pan filled with distilled water (must not be purer than 1 mega-ohm) and placed on the chamber bottom, a relative humidity of up to 90% can be achieved and maintained.

Specifications

Electrical Requirements	InVitroCell™ ES (Energy Saver) Model NU-5700 CO2 Incubator Specifications	
NU-570E: 2007, 5080Hz Outsiley Assurance	Electrical Requirements	
Cualify Assurance Ui, Ui, Ui, C. C. E.	Models	
Dimensions (W x D x H)		
25.5.27.5.36.188 in 684.898.x89 mm		UL, UL-C, CE
648 x 699 x 894 mm		
Foo Print (W x D)	Exterior Dimensions (W x D x H)	
Interior Dimensions (W x D x H)		
Interno Dimensions (W x D x H)	Foot Print (W x D)	
St4 x 52 x 610 mm S 56 x 6		
Self Dimensions (W x D)	Interior Dimensions (W x D x H)	
160 Lter		
Shelve Supplied (Standard)	Chamber Volume	
Agr x 476 mm		
Shelves Supplied (Standard) Quantity 4	Shelf Dimensions (W x D)	
Maximum Shelf Capacity 16 Maximum Weight Capacity 25 bis (11.34 kg) per shelf Water Pan Dimensions (W x D x H) 125 bis (65 7 kg) per incubator Water Pan Capacity 224 x 38 x 305 mm Volume 2 Liters (Maximum) 1.5 Liters (Recommended Fill) Volume 5.55 ft3 Net Weight (Including Water and Shelving) 225 bis Temperature Control 103 kg		
Assum Weight Capacity 25 bit (11.34 kg) per shalf		
125 bs (627 kg) per incubator 125 bs (627 kg) per incubato	Maximum Shelf Capacity	
Water Pan Dimensions (W x D x H) 10 x 1,5 x 12 in	Maximum Weight Capacity	
254 x 38 x 056 mm		
Water Pan Capacity 2 Liters (Maximum) Volume 1.5 Liters (Recommended Fill) You be 160 1.5 Liters (Recommended Fill) Yes Weight (Including Water and Shelving) 2.2 Liters Temperature Control 103 kg	Water Pan Dimensions (W x D x H)	
1.5 Liter (Recommended Fill) 5.56 H3 5.5		
Volume 5.56 13 160 L 160 L Net Weight (Including Water and Shelving) 225 bs Temperature Control 103 kg	Water Pan Capacity	
Net Weight (Including Water and Shelving) 160 L 225 bs 103 kg	w.	1.5 Liters (Recommended Fill)
Net Weight (Including Water and Shelving) 225 bs 103 kg Temperature Control	volume	
Temperature Control	N.W. Lead and D. W. C. and D. C. A.	
Temperature Control	Net weight (including water and Sherving)	
	Temperature Control	105 kg
		F8C + FF8C (078C J-110) (F8C -1
Set-Point Range: 5°C to 55°C (37.0 Default)	Control range:	
Set-rount ratige. 5 - 10.00 = (0.7) Usedanly Uniformly: 5 - 10.00 = (0.7) Usedanly 1.00	Ser-rum range.	
Recover; 0.12°C/min. on Average		
Neovery: 0.12 Girlls of Average Display Resolution: 0.17 C Display Resolution: 0.17 C		0.1%
Door and Perimeter Heater Control Logic: Proportional base duty cycle based on Temperature set point and -20 to +20% manually adjustable to adapt to ambient conditions.	Door and Perimeter Heater Control Logic:	
Temperature Sensor Type: Prepision Integrated Circuit Prepision Integrated Circuit	Temperature Sensor Type:	Precision Integrated Circuit
Co2 Control Standard	CO2 Control Standard	
Range: 0.1 to 20% (default 5%). (0.0 set point idles system)		0.1 to 20% (default 5%). (0.0 set point idles system)
Accuracy: ±0.1%	Accuracy:	±0.1%
CO2 Recovery: Up to 5% ±0.2% / -0.5 in 5 minutes Average	CO2 Recovery:	
CO2 Display Resolution: 0.1%		
CO2 Control Logic: Fixed Algorithm/Manual, Environmental Adaptable	CO2 Control Logic:	
CO2 Sensor Type: Infrared single source dual wave length	CO2 Sensor Type:	Infrared single source dual wave length

Reviews

There are yet no reviews for this product.