

LEEC 190 Litre Culture Safe TOUCH CO₂ Incubator With 200°C Sterilisation (LEECT190S)

Product Code: LEECT190S

Brand: LEEC

The LEEC 190 Litre Culture Safe TOUCH CO₂ Incubator With 200°C Sterilisation (LEECT190S) has a fully-sealed, electro-polished, one-piece, deep drawn chamber which is manufactured from the highest grade 316 stainless steel. The purpose of the design of this laboratory incubator is to lower the risk of contamination.



Features

Construction

- 316 grade stainless steel one-piece chamber, which is sealed completely
- The outer cabinet is manufactured from stainless steel and has an anti-bacterial powder coat paint finish, making these incubators contamination resistant and have exceptional corrosion
- An inner glass viewing door closes positively onto an inert gasket (no VOC's) and allows a clear view of the chamber contents without disturbing the internal atmosphere.
- The outer door has a magnetic gasket providing a good seal and magnetic door locks which engage once the 200°C sterilisation cycle starts
- A rear access port allows temperature monitoring probes to be inserted safely into the chamber

Unique Heating

- Six-sided heating system with high performance thermal insulation to ensure the highest standards in temperature control and stability. The independent outer door remains condensate free

Anti-Contamination

- These incubators are designed to eliminate contamination inside the chamber. Features include fan-less air circulation, a crevice-free, electro-polished, one-piece chamber, HEPA filtered gas inlet and a marketing leading 200°C hot air sterilisation cycle. Externally, the paint contains an active anti-bacterial biocide

Control System

- The state of the art PID touch screen controller is designed to be as user friendly as possible, allowing the user to quickly access the required menus via a simple icon navigation system. The multi-function, PID touch screen module controls the temperature, CO₂, and alarm functions (including low gas and power failure). An independent safety cut out disconnects the heating system should an over temperature condition occur
- The touch screen controller also provides real time data logging in graphical and text format onto a SD memory card. Text and graphical data logging of temperature, CO₂ and O₂ (if fitted) is possible with a maximum of 72 hours graphical data logging and 100 text event logs, all conveniently saved as .csv files for viewing in Microsoft Excel

200°C Sterilisation Cycle

- The LEECT190S has been independently evaluated for the effectiveness of its 200°C sterilisation cycle. The sterilisation cycle was proven to be effective against the stubborn *Geobacillus stearothermophilus* spores, atcc 12980 dried on coupons (Apex Laboratories Inc. Lot No. K00001), *Aspergillus* spores (formally *Aspergillus niger*), and *Bacillus atrophaeus* spores NCTC dried on coupons (prepared at HPA)

Specifications

Capacity (L)		190
Temperature	Range	5°C above ambient to + 60°C
	Control	0.1°C
	Stability	± 0.1°C at 37°C
	Uniformity	± 0.25°C at 37°C
Electrical	Voltage	230V AC, 50/60Hz (120V versions available)
	Power (normal)	380W
	Power (during sterilisation)	1800W
	Consumption at 37°C	0.058 kwh
CO₂	Range	0% to 20%
	Control	± 0.1%
	Stability	± 0.2%
	Uniformity	± 0.2%
	CO₂ Sensor	Infra-Red min. 5 psi and max. 10 psi
	CO₂ Inlet Pressure	Min. 0.3 bar and max. 0.7 bar
Humidity	RH at 37°C + 5%	Up to 90%
Dimensions (W x H x D)	Internal (mm)	632 x 686 x 440
	External (mm)	765 x 862 x 734
	Shipping Container (mm)	925 x 1080 x 850
Weight	Net (kg)	104
	Shipping (kg)	117.5

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