

## LEEC 190 Litre Culture Safe TOUCH CO<sub>2</sub> Incubator With 200°C Sterilisation (LEECT190S)

**Product Code:** LEECT190S

**Brand:** LEEC

The LEEC 190 Litre Culture Safe TOUCH CO<sub>2</sub> 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, CO<sub>2</sub>, 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, CO<sub>2</sub> and O<sub>2</sub> (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

<b>Capacity (L)</b>		190
<b>Temperature</b>	<b>Range</b>	5°C above ambient to + 60°C
	<b>Control</b>	0.1°C
	<b>Stability</b>	± 0.1°C at 37°C
	<b>Uniformity</b>	± 0.25°C at 37°C
<b>Electrical</b>	<b>Voltage</b>	230V AC, 50/60Hz (120V versions available)
	<b>Power (normal)</b>	380W
	<b>Power (during sterilisation)</b>	1800W
	<b>Consumption at 37°C</b>	0.058 kwh
<b>CO<sub>2</sub></b>	<b>Range</b>	0% to 20%
	<b>Control</b>	± 0.1%
	<b>Stability</b>	± 0.2%
	<b>Uniformity</b>	± 0.2%
	<b>CO<sub>2</sub> Sensor</b>	Infra-Red min. 5 psi and max. 10 psi
	<b>CO<sub>2</sub> Inlet Pressure</b>	Min. 0.3 bar and max. 0.7 bar
<b>Humidity</b>	<b>RH at 37°C + 5%</b>	Up to 90%
<b>Dimensions (W x H x D)</b>	<b>Internal (mm)</b>	632 x 686 x 440
	<b>External (mm)</b>	765 x 862 x 734
	<b>Shipping Container (mm)</b>	925 x 1080 x 850
<b>Weight</b>	<b>Net (kg)</b>	104
	<b>Shipping (kg)</b>	117.5

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