

# Incubator, CO2 cell culture



A new advanced range of user-friendly designed and technologically advanced CO2 Incubators, to meet the needs of demanding cell culturing environments.

**Fan-less design:** Zero vibration helps avoid edge effects, less cell desiccation making this unit ideal for cultivation in multi-well plates, requiring low maintenance and significantly less risk of contamination.

**Sterilisation:** 200°C dry-heat sterilisation option. Independent testing at the UK Health Protection Agency, shows complete deactivation of all test spores and bacteria.

**Ease of use:** The PID controller is designed to be as user-friendly as possible, allowing the user to quickly navigate to the required menus via icon symbols.

**Easy to clean:** 316 Stainless Steel electro-polished drawn seamless inner chamber.

**Monitoring:** On board text and graphical data logging of temperature, CO2 and O2 (if fitted), with a minimum of 72 hours graphical data logging and 100 text event logs, all conveniently saved as delimited files for easy viewing in MS Excel®.

**High Capacity:** At 190 litre capacity the biggest internal chamber with the smallest associated external dimensions.

**Sensors:** A drift-free CO2 infrared sensor, features auto-zeroing and auto start-up procedures, saving valuable downtime and offers more security for samples inside the chamber.

### Culture Safe CO2 Key Features:

- World's first 200°C sterilisation
- Ethernet Connection
- Continuous download to SD card
- New touch-screen PID control system with on-board text & graphic data logging
- 316 Stainless Steel electro-polished drawn chamber
- Easily-Removable Racking and Shelves
- No internal fan
- Drift-free CO2 sensor
- 190 Litre Capacity
- Anti-microbial biocide paint
- High energy efficiency

### Available factory fitted options (must be ordered with incubator)

- 1 -19% Oxygen control (available on the T190S only)
- Stainless steel inner door with 8 viewing ports
- %RH display
- Ethernet communication port
- 4-20mA retransmit



IN/5522



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### Technical Specifications

#### Temperature management

Range	5°C above ambient to +60°C
Control	0.1°C
Stability	± 0.1°C @ 37°C
Uniformity	± 0.25°C @ 37°C

#### CO2 Gas management

Range	0% to 20%
Control	± 0.1%
Stability	± 0.2%
Uniformity	± 0.2%
CO2 Sensor	IR
CO2 inlet pressure	min 5 psi max 10 psi, min 0.3 bar max 0.7 bar

#### Dimensions

Internal (WxHxD), mm	632 x 686 x 440
External (WxHxD), mm	765 x 862 x 734

#### Humidity

RH (@37°C +5%)	90%
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#### Electrical

Voltage	230V 50/60Hz
Power	380W

Cat. No.	Model	Description
IN/55220	Touch T190	190 litre Culture Safe touch screen model
IN/55224	Touch T190S	190 litre Culture Safe touch screen model, 200°C sterilisation
IN/55226	PRV	Single stage CO2 cylinder pressure reducing valve with gauges
IN/55228	PRV2	Two stage CO2 cylinder pressure reducing valve with gauges
IN/55230	PRVN	Two stage N2 cylinder pressure reducing valve with gauges
IN/55232	RO6	In-line CO2 reducing valve with pressure gauge (2 to 30 psi.)
IN/55234	PNEU	Automatic changeover unit for 2 cylinders (CO2 or N2)
IN/55236	REPTUB	Replacement Tygon tubing (priced at per meter)



Touch screen