

## Copper CO<sub>2</sub> Incubator specifications

Feature	Minimum requirements/specifications
Capacity	160 liters (min), benchtop with inner glass door
Chamber material	100% copper chamber for antimicrobial protection Smooth, corrosion-resistant finish, with rounded corners for easy cleaning
Shelves	Stainless steel or copper perforated shelves (adjustable), minimum 3 included
Temperature range	+5 °C to 50 °C
Temperature resolution	±0.1 °C or better
Temperature accuracy	±0.5 °C at 32 °C or better
Temperature uniformity	±0.3 °C or better
Temperature Stability	ensuring stable temperature recovery after door opening (±0.2 °C at 32°C)
CO <sub>2</sub> range	0–10 %
CO <sub>2</sub> resolution	±0.1 %
CO <sub>2</sub> accuracy	±0.1 % or better
CO <sub>2</sub> sensor	Infrared (IR)
Humidity	Integrated humidity system with ≥95% RH capability
	Should have a removable humidity tray for easy cleaning
	Humidity recovery within 15 minutes (≤15min)
Display	Digital, display of CO <sub>2</sub> , temperature and humidity Alarm system (visual & audible) for temperature, CO <sub>2</sub> , humidity deviations, and door ajar
Contamination control	A sealed system with a HEPA or ULPA filter to prevent airborne contaminants from entering the chamber
Safety features	Over-temperature cut-off CO <sub>2</sub> supply safety shut-off in case of leak or failure Low CO <sub>2</sub> pressure alert
Utility requirements	Power supply: 220–240 V, 50 Hz (single phase) CO <sub>2</sub> inlet fitting compatible with standard gas cylinders
Warranty and support	Minimum 24-month warranty covering parts and labour Local technical support and service availability in South Africa On-site installation and operator training to be included
Compliance	ISO 13485 or equivalent manufacturing quality standard