



AL01-15-100

CO2 incubator (Touch Screen) – 50 liter

"Innovative CO2 incubators to ensure your safe cultures."

Advantage-Lab CO2 Incubators consist of a clever **6 sided direct heating system** with high performance insulation ensuring the highest standards in temperature control and stability. The independent outer door heater ensures that the inner glass door remains condensate free.

All Advantage-Lab CO2 incubators are fitted with a **premium quality state of the art drift free infra-red CO2 sensor**. This ensures accurate CO2 measurement at all instances in time and total peace of mind that your samples are culturing at the correct % CO2 level all the time.

The Advantage-Lab CO2 incubators have a fully sealed, electro-polished, one-piece, deep drawn chamber, manufactured from the high grade 304 stainless steel. The outer cabinet is manufactured from stainless steel, and has an anti-bacterial powder coat paint finish. This gives the CO2 incubator exceptional corrosion and contamination resistance. An inner glass viewing door closes positively onto an inert (no VOC's) gasket 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.

FEATURES:

- User friendly control system on led display
- 50 liter or 190 liter chamber capacity
- Electro-polished, one-piece, deep drawn chamber that ensures minimal risk of contamination; no internal fan
- Premium Stainless Steel providing exceptional corrosion and contamination resistance
- Anti-bacterial biocide paint outer cabinet
- Unique 6 sided direct heating system that ensures the highest standards in temperature control and stability
- Rear access port allows temperature monitoring or other probes
- Market leading 200°C sterilization option (AL01-14-100)
- 8 inner door option

TECHNICAL SPECIFICATION

Model	AL01-15-100
Size (liter)	50
Air Convection	Natural
Trays	3 standard
Power	350w
Voltage (nominal +/-10%) 50/60Hz (V)	230
Temperature °C	Ambient +5 to 60°C
Temperature control	0,1 °C
Temperature stability/uniformity @37°C	±0,1°C / ± 0,25°C
Control Panel/ Display	Automatic / Touch Screen
CO2 sensor/ range /Control	Infrared / 0 to 20% / ±0,1%
CO2 stability/ uniformity	±0,2% / ± 0,2%
CO2 Inlet pressure	Min 0.3 bar, max 0.7 bar
O2 sensor/ range /Control	Electrochemical / 1 to 19% / ±0,1%
O2 stability/uniformity	±0,25% / ± 0,25%
O2 Inlet pressure	Min 0.3 bar, max 0.7 bar
Humidity RH (@37°C +5%)	Up to 95%
ChamberDimensions (W x Lx H)	402 x 402 x 300 mm
External Dimensions (W x Lx H)	534 x 736 x 460 mm
Net Weight	38 kg
Colour	white

BENEFITS FANLESS CO2 INCUBATOR:

- Significantly reduced risk of contamination
- Zero vibration: eradicates any possibility of cell edging effect
- Significantly less evaporation; minimize loss of water in the water tray, hence less risk of sample evaporation and possible desiccation
- Considerably easier to clean
- Very easy and quick to remove shelves and shelf racks for ease of cleaning
- Considerably more useable space, no ducting or built in hepa to minimize useable space
- No hidden areas or crevasses that can be difficult to clean
- No fan maintenance
- No extra costs to replace expensive fan Hepa filters and the associated health risks in doing so
- Helps to minimize loss of chamber conditions during inner glass door opening
- No turbulent airflow that can spread contamination introduced into the inner chamber quickly



Natural air convection, very gentle movement

OPTIONS

Code	Description
AL01-10-160	Stacking kit for stacking 2 x 190 liter units
AL01-10-161	Wheeled platform trolley with 4 x castors (2 front castors lockable)
AL01-10-162	Single-stage CO2 cylinder pressure reducing valve with gauges
AL01-10-163	Two-stage CO2 cylinder pressure reducing valve with gauges
AL01-10-164	Two-stage N2 cylinder pressure reducing valve with gauges
AL01-10-165	In-line CO2 reducing valve with pressure gauge (2 to 30 p.s.i.)
AL01-10-166	Automatic change over unit for two cylinders (CO2 or N2)
AL01-10-167	8 inner door option (available on both 190 liter models)
AL01-10-168	6 inner door option (available for 50 liter models)
AL01-10-169	3 inner door option (available for 50 liter models)
AL01-10-170	Tygon tubing (inert). Free of VOC and CAC (price per meter)

EXTRA OPTIONS TOUCH SCREEN MODELS

Code	Description
AL01-10-180	%RH display
AL01-10-181	1-19% Oxygen Control (for AL01-14-100 only)
AL01-10-182	Ethernet Communication port



[AL01-12-100](#) · open 50l CO2 Incubator



Water tray

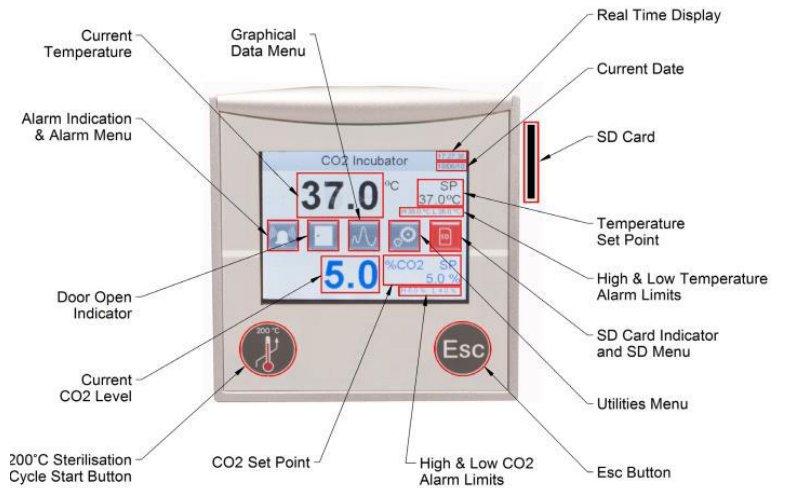


190l CO2 incubator inside

TOUCH SCREEN

The new state of the art PID 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.

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 .csv files for viewing in MS Excel®.



RECOVERY GRAPH

Typical recovery graphs for a AL01-15-100 model with standard glass door: The graphs below shows typical recovery times for *temperature, *%CO2 and *%RH, after the glass door is opened for the duration of 30 seconds and then closed. *Quicker recovery times are achievable with an 8 Inner door option.

