



AL01-12-100

CO2 incubator – 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 160°C decontamination option (AL01-11-100)
- Multiple inner door options (3 or 8)

TECHNICAL SPECIFICATION

Model	AL01-12-100
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 / LED Display
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
Humidity RH (@37°C +5%)	Up to 95%
Chamber Dimensions (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)



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



Water tray



CO2 incubator door opening

RECOVERY GRAPH

Typical recovery graphs for our 50 liter model 3 inner door option fitted: The graphs below shows typical recovery times for *temperature, *%CO2 and *%RH, after the bottom compartmental glass door is opened for the duration of 30 seconds and then closed.

