CO_2 Incubators

These CO_2 incubators set advanced standards in performance and freedom from contamination. The two Research models have the added benefit of a high temperature decontamination facility (95°C).

Advanced Microprocessor Control

The specially developed microprocessor controller gives the user day to day control over all alarm settings, alarm delay and calibration adjustment. These settings are protected by an anti-tampering procedure. Sensors placed within key areas of the chamber constantly monitor and enable the control system to optimise temperature and CO_2 levels. After door opening, the culture conditions quickly recover without overshoot, and stable control is maintained. Profiled heating, a technique developed by LEEC, eliminates all risk of “hot-spots”.

Active Contamination Control

All models have a unidirectional airflow (fan assisted) in the work area, an in-line CO_2 HEPA filter, and an ultra-smooth stainless-steel chamber with rounded edges. The indirectly heated inner glass door remains condensation free. These features all help to reduce the risk of contamination. The Research models also have a high temperature decontamination facility operated by a security key switch. User experience has shown high temperature to be especially effective in eliminating culture contamination.

In-Vivo Simulation

The advanced LEEC-20.2 microprocessor combined with the ducted airflow system ensures that temperature and CO_2 stabilities (typically +0.1 °C and ±0.2%) are maintained to the tightest tolerances, in order to give optimum cell culture conditions.

Standard Features:

Control

- Microprocessor control with soft touch panel.
- Bright LED digital displays for temperature and CO_2.
- Comprehensive alarm system (audible and visual).

Construction

- Stainless steel outer cabinet for longer life.
- Ultra smooth stainless-steel chamber helps contamination control.
- Adjustable levelling feet.
- Two cable access ports (12mm diameter).

Heating and Safety

- Built-in cooling coil (can be connected to a C3 self-contained Recirculating cooler unit for operation close to or below ambient).
- High and low alarm warnings (temperature and CO_2).
- Independent over temperature safety cut out with failsafe.
- Remote alarm connections (volt-free, N/O, N/C).

Contamination Control

- Unidirectional airflow (fan assisted).
- CO_2 HEPA filter removes airborne contaminants from the incoming CO_2 gas.
- High temperature 95°C decontamination (models GA2000 and GA3000 only).
- Indirectly heated inner glass door prevents condensation.

CO_2 Incubators

	Research models GA2000 / GA3000	Standard models GA2010 / GA3010
Temperature **Range** **Control** **Variation** **Recovery** **Sensor**	 ta[(1)] to +60°C <±0.1° at +37°C <±0.2° at +37°C Typically < 6 minutes AD590	 ta(1) to +60°C <±0.1° at +37°C <±0.2° at +37°C Typically < 6 minutes AD590
CO_2 **Range** **Control** **Recovery** **Sensor**	 0-20% <±0.2% at 5% Typically 3 minutes Infrared (IR)	 0-20% <±0.2% at 5% Typically 3 minutes Infrared (IR)
RH **Range**	All models – ambient or 95-98% by forced evaporation	
Construction	Stainless steel chamber (316). Powder coasted white painted stainless steel outer cabinet. Indirectly heated inner door. Slow speed fan circulation. CFC free thermal insulation.	
Alarms	High / low temperature High / low CO_2 Time delay Remote connections	High / low temperature High / low CO_2 Time delay Remote connections
High Temperature Decontamination Facility	Yes (95°C)	No
Electrical Supply	220-240V AC, 50/60 Hz	220-240V AC, 50/60 Hz
Warranty	1 year	1 year

ta[(1)] = at least 5°C above ambient. Temperatures down to +20°C, using a LEEC C3 self-contained recirculating cooler unit (or lower with a special cooling coil).

Accessories:

ST1 Wheeled platform for one incubator

ST2 Stacking stand for two incubators

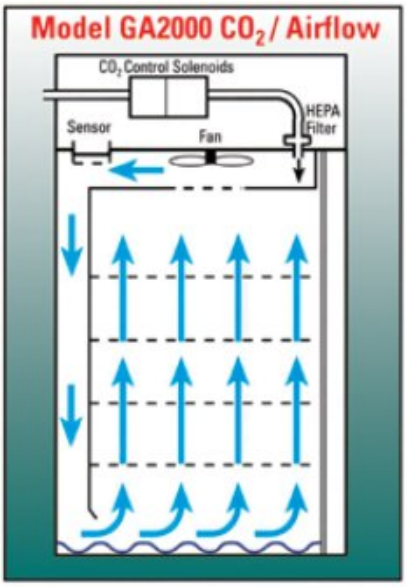
ST3 Stacking stand on castors for two incubators

C3 Self-contained recirculating cooler unit

PNEU Automatic two-cylinder changeover unit for CO_2

PRV2 Two-stage CO_2 cylinder pressure reducing valve with gauges

R06 In-line CO_2 pressure reducing valve with gauge (2-30 psi)



Dimensions

Model	Capacity	External (mm)	Internal (mm)	Shelves	Weight	Power Rating
GA2000 **GA2010**	150 litres	880H x 635W x 660D	600h x 510W x 500D	4	85 kg	Typically 250W
GA3000* **GA3010***	320 litres	1550H x 635W x 660D	1275H x 510W x 500D	6	135 kg	Typically 350W

*One chamber with two inner glass doors, and one outer door.

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Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct.
If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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Please contact us if this literature doesn't answer all your questions.