## 14L GOLD


## 14L SILVER


Scottish based GS Biotech, design and manufacture a range of $CO_2$ Cell Culture Incubators. The range is initially comprised of:- 14, 48, and 170 litre chamber capacities.

All models are close descendants of the first six-sided, direct heat incubator. GS Biotech has built on this lineage with smart blending of older and newer technologies to build reliability, performance and choice into the range - at a fair price.

The range is designed around a scalable architecture and offers the following features as standard:-

- ✓ Optimum chamber environment, profiled heating creates gentle circulation –no fan or HEPA filter.
- ✓ Seamless chamber, with rounded interior corners makes cleaning easy.
- ✓ Removable shelves are non-tip.
- ✓ Sealed inner glass door allows chamber viewing.
- ✓ Temperature range programmable from 4 °C above ambient to 50 °C.
- ✓ Infrared $CO_2$ Sensor, with auto self-referencing function.
- ✓ $CO_2$ range programmable from 0.2 to 20 %.
- ✓ Large, easy to read LCD display with LED backlight.
- ✓ Removable, seamless, stainless steel humidity reservoir.
- ✓ 25mm access port for cable pass-through etc.
- ✓ HEPA filtration for all incoming gasses.
- ✓ Large range of options allows you to configure each incubator for each task.
- ✓ Optional data capture and reporting for QA and verification purposes.
- ✓ 3 Year Warranty (extendable).

Control System Safety Features Include:

- ✓ Independent over temperature cut-out.
- ✓ Calibration and programmed data internally backed up to guard against loss.

# 14L Model Options

## 1. Oxygen Control

Oxygen control option is available: 1-19%

This control systems consist of nitrogen injection to accurately control the desired below ambient Oxygen level.

GOLD MODEL OPTION ONLY

## 2. RS232 – Communication Socket

An RS232 socket can be fitted to enhance the communication function to allow for external data monitoring, this option does not include on-board data logging.

SILVER MODEL OPTION ONLY

| Features | 14L Gold | 14L Silver |
|---|---|---|
| 170L SEAMLESS CHAMBER WITH FULLY ROUNDED CORNERS | ● | ● |
| DRY WALLED CHAMBER WITH NO CONDENSATE SPOT | ● | ● |
| INFRARED HERMETICALLY SEALED $CO_2$ SENSOR | ● | ● |
| $CO_2$ AUTO REFERENCE SYSTEM | ● | ● |
| SEALED INNER GLASS DOOR | ● | ● |
| LARGE LCD DISPLAY WITH LED BACKLIGHT | ● | ● |
| 25mm ACCESS PORT WITH SEALING PLUGS | ● | ● |
| RS232 OUTPUT SOCKET | ● | O |
| ON BOARD DATALOGGER | ● | X |
| $O_2$ CONTROL 1-19% | O | X |

| Options | 14L Gold | 14L Silver |
|---|---|---|
| 230V 50/60Hz | 14G-230 | 14S-230 |
| 110v 50/60Hz | 14G-110 | 14S-110 |
| $O_2$ CONTROL 1-19% | 14G-711 | X |
| RS232 OUTPUT SOCKET | ● | 14S-720 |

●Standard Equipment O Option available X Option not available

| Accessories | Order code |
|---|---|
| $CO_2$ CYLINDER AUTO CHANGEOVER UNIT | GSB-5000 |
| $CO_2$ TWO STAGE REGULATOR | GSB-5010 |
| IN LINE PRESSURE REGULATOR | GSB-5030 |
| $CO_2$ SUPPLY LINE FILTERS (2OFF) | GSB-5020 |
| $CO_2$ AUTO REFERENCE FILTER | GSB-5060 |
| HUMIDITY TRAY | GSB-6200 |
| $CO_2$ ELECTRONIC ANALYSER | GSB-6150 |
| $CO_2$ /$O_2$ELECTRONIC ANALYSER | GSB-6831 |
| STACKING KIT | GSB-1180 |

## TECHNICAL SPECIFICATION

### TEMPERATURE MANAGEMENT

| | |
|---|---|
| RANGE: | 4°C ABOVE AMBIENT TO 50°C |
| CONTROL: | ± 0.1°C |
| STABILITY: | ± 0.1°C |
| UNIFORMITY | ± 0.3°C |

### RELATIVE HUMIDITY

| | |
|---|---|
| TRAY CAPACITY: | 0.3 LITRES |
| HUMIDITY: | UP TO 95% @ 37°C |

### SHELVES

| | |
|---|---|
| SOLID SHELVES: | 2 SHELVES |
| DIMENSIONS: | 215(W) X 192(D)mm |

### $CO_2$ CONTROL

| | |
|---|---|
| RANGE: | 0.2 - 20% |
| CONTROL: | ± 0.1°C |
| STABILITY: | ± 0.2°C |
| UNIFORMITY: | ± 0.1°C |
| RECOVERY RATE: | 1.5% PER MINUTE |
| CONNECTION: | 6mm TUBING |
| GAS PRESSURE: | 0.35BAR (5PSI) |

### DIMENSIONS

| | |
|---|---|
| CHAMBER: | 238(W) X 201(D) X 298(H)mm |
| EXTERNAL: | 336(W) X322(D) X 481(H)mm |
| CRATED: | 461(W) X 497(D) X 716(H)mm |
| UNIT WEIGHT: | 22KG |
| CRATED WEIGHT: | 38KG |

### ELECTRICAL SUPPLY

| | |
|---|---|
| VOLTAGE: | 100/120V OR 220/240V<br>50/60 Hz |
| POWER: | 700W |
| HOLD ENERGY: | < 0.1kWh @ 37°C |

GS BIOTECH LTD, UNIT 6 AILSA INDUSTRIAL, AILSA ROAD, IRVINE, AYRSHIRE, SCOTLAND, KA12 8LN
TEL: +44(0) 1294 279877 : EMAIL INFO@GSBIOTECH.CO.UK