GS Biotech

170L GOLD

170L 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.

170L Model Options

1. High TemperatureDecon Cycle

This option takes the internal temperature to 120°C and maintains this temperature for 4hrs before natural cooling to allow normal function.

GOLD & SILVER MODEL OPTION

2. 4-Inner Door Option

4 Inner doors allow chamber conditions to be more readily maintained when frequent entry is required to the chamber.

GOLD & SILVER MODEL OPTION

3. Oxygen Control

2 Oxygen control options are available:
1-19% & 0.1-19%
Both control systems consist of nitrogen injection to accurately control the desired below ambient Oxygen level.

GOLD MODEL OPTION ONLY

4. Humidity Tray Warning

An optical level sensor is an option that monitors humidity tray water level, this consists of an audible alarm. The detection level provides in excess of 2 days normal operation loss so as to accommodate long weekend periods of non attendance.

GOLD & SILVER MODEL OPTION

5. Cooling System

This option allows the incubator to function at temperatures of 10°C below ambient.

GOLD MODEL OPTION ONLY

Features

Features	170L Gold	170L 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
HIGH TEMPERATURE DECONTAMINATION	O	O
4 INNER DOOR OPTION	O	O
O_2 CONTROL (1-19% OR 0.1-19%)	O	X
HUMIDITY TRAY WARNING	O	O
COOLING SYSTEM	O	X

Options

Options	170L Gold	170L Silver
230V 50/60Hz	170G-230	170S-230
110v 50/60Hz	170G-110	170S-110
HIGH TEMPERATURE DECONTAMINATION	170G-014	170S-014
4 INNER DOOR OPTION	170G-022	170S-022
O_2 CONTROL 1-19%	170G-011	X
O_2 CONTROL 0.1-19%	170G-031	X
RS232 OUTPUT SOCKET	●	170S-220
HUMIDITY TRAY WARNING	170G-018	170S-018
COOLING SYSTEM	170G-015	X

● Standard Equipment   O Option available   X Option not available

Accessories

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-6140
CO_2 ELECTRONIC ANALYSER	GSB-6150
CO_2 /O_2ELECTRONIC ANALYSER	GSB-6831
STACKING KIT	GSB-1060

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:	2.5 LITRES
HUMIDITY:	UP TO 95% @ 37°C

SHELVES

SOLID SHELVES:	4 SHELVES
DIMENSIONS:	518(W) X 475(D)mm

CO_2 CONTROL

RANGE:	0.2 - 20%
CONTROL:	± 0.1°C
STABILITY:	± 0.2°C
UNIFORMITY:	± 0.1°C
RECOVERY RATE:	> 0.7% PER MINUTE
CONNECTION:	6mm TUBING
GAS PRESSURE:	0.35BAR (5PSI)

DIMENSIONS

CHAMBER:	540(W) X 480(D) X 633(H)mm
EXTERNAL:	669(W) X 631(D) X 822(H)mm
CRATED:	794(W) X 806(D) X 1057(H)mm
UNIT WEIGHT:	75KG
CRATED WEIGHT:	100KG

ELECTRICAL SUPPLY

VOLTAGE:	100/120V OR 220/240V 50/60 Hz
POWER:	500W(STD) / 1000W(HT)
HOLD ENERGY:	< 0.1kWh @ 37°C