

CelCulture® incubator mod. CCL-050B-8

50 L, IR Sensor, CO2 Control, Moist Heat Decon, 230 VAC, 50/60 Hz

CO2 incubators are widely used in scientific research to grow and maintain cell cultures. Typical fields of application include tissue biotechnology, in vitro fertilization, neuroscience, cancer research and other applications in breast cancer research.

Elegant, reliable and intuitive, Esco CelCulture® CO2 Incubators provide complete sample protection and make your scientific dreams come true.

CelCulture® 50 L Incubator, IR Sensor, CO2 Control, Decon Moist Heat (without Decon Pump), 230 VAC, 50/60 Hz

Electrogalvanized steel construction with baked epoxy-polyester powder antimicrobial coating paint.

The external surfaces are coated with to eliminate 99.9% of surface bacteria within 24 hours of exposure.

SHELVES

- Perforated shelves to improve temperature uniformity (No. 3 standard pieces)
- Stainless steel
- Integrated handle
- Removable without tools for easy cleaning

DIRECT HEAT AND AIR CAVITIES

- Rapid and uniform heating
- Quick temperature recovery
- The cavity improves the stability of the chamber

AIR DUCT

- Directs the airflow for fast recovery and excellent uniformity
- Easily removable for cleaning

WATER TRAY

- Properly heated by a base heater to provide high humidity
- Gentle air flow over the water surface accelerates moisture recovery

ROUNDED CORNERS

- Seamless design
- They facilitate cleaning

SWITCH ON THE DOOR

Automatically turns off the fan and gas supply when the door is opened.

CO2 SENSOR

- IR sensor
- Single beam, dual wavelength IR sensor is dispersion free
- Auto-zeroing

SMARTSENSE™ MICROCONTROLLER INTERFACE



Intuitive, in complete control of the monitoring system.

TOP COVER

Provides quick access to electrical panel components

Easily adjustable

EXTERNAL DOOR

- Invertible
- Heated to prevent condensation

SAMPLING PORT

It allows to obtain a direct measurement of the chamber atmosphere and also of the temperature and CO₂ concentration

INTERNAL GLASS DOOR

To observe the cells in the samples inside the chamber during operation

DOOR LOCK

To lock and unlock the glass door

LEVELING FEET

Easily adjustable

For IVF applications, Esco CelCulture® CO₂ incubators are certified as safe for embryos.

Undergoing rigorous technical testing with the Mouse Embryo Assay (MEA), CelCulture® has extraordinarily 100% embryo survival. The Mouse Embryo Assay (MEA) is the de facto standard test performed to demonstrate that a procedure or instrument is safe to use for handling human embryos (e.g. for in vitro fertilization or IVF).

The Esco CelCulture® CO₂ Incubator is indicated by the UL Subscriber Laboratory in accordance with the requirements of both the United States and Canadian standards for electrical and mechanical integrity.

Moist heat decontamination cycle at 90 ° C Validated by HPA (UK - Health Protection Agency)

The Esco CelCulture® CO₂ incubator decontamination cycle has been evaluated as an effective method for the inactivation of fungi, bacterial spores of *Aspergillus brasiliensis* and *Bacillus atrophaeus* and vegetative cells of *Pseudomonas aeruginosa*, *Staphylococcus aureus*, *Staphylococcus epidermidis*, *Enterobacter coli* and *Escherichia coli*, which are normally hardy.

Technical data

External dimensions of the product

Height:	655	mm
Length:	500	mm
Depth:	500	mm

Internal dimensions of the product

Height:	388	mm
Length:	345	mm

Depth: 375 mm
Volume : 50L

Weight: 52 kg

Shelves

- No. of perforated shelves 3

Temperature

- Temperature control range: from ambient T +3 to 60 ° C
- Temperature uniformity < + 0.5 ° C
- Temperature accuracy < + 0.1 ° C
- Temperature reset (after 1 minute with the door open): < 6 minutes

Humidity

- Humidity range above 95% using the water pan

Infrared CO2 sensor

- CO2 control range: 0-20%
- Accuracy of% CO2: + 0.1%
- Humidity recovery time (after 1 minute with the door open): < 5 minutes

Diet

- Mains: 220-240 VAC, 50/60 Hz
- Nominal power at 37 ° C: 40.9 W
- Maximum energy consumption during decontamination: 598.8W

Code	Description
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