BIOSPECTRIX PVT LTD



BS CO2 Incubator LCD + Touch Screen

Scope of Application

The carbon dioxide incubator is a professional device that utilizes an infrared sensor and a microcomputer system to precisely control temperature, CO2 concentration, and humidity. It is specifically designed for scientific research such as cell/tissue culture, microbial propagation, and in vitro fertilization. It is widely used in biopharmaceuticals (cancer therapy/monoclonal antibody production), reproductive medicine (embryonic development support), environmental monitoring (pollutant degradation), and the food industry, among other fields.

Structural Features

Outer Casing

Constructed from selected cold-rolled steel plate base material, treated with electrostatic baking paint process, forming a dense, hard, and sturdy protective surface layer with excellent anti-rust capability.

Working Chamber

Utilizes an air-jacketed structure and six-sided heating technology. The chamber is made of high-quality stainless steel plates and is equipped with air ducts to form forced convection, ensuring uniformity of temperature and CO2 concentration inside the chamber.

Control Panel

Employs a microcomputer-based intelligent true-color LCD screen, offering high precision, no overshoot, and accurate, intuitive control of temperature and gas concentration. It displays real-time temperature, CO2 concentration, and operational curve changes. Note: The CO2-TSP series uses a microcomputer-based intelligent touch screen.

Sensor

Strictly selected imported infrared CO2 sensor from Korea provides accurate measurement data and fast detection speed, ensuring stable and uniform CO2 concentration inside the chamber.

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Dual Probes

Utilizes dual probes to detect chamber temperature and door temperature separately, resulting in high temperature precision and minimal fluctuation within the working chamber.

Door Temperature Heating

Features a double-door design. The outer door heats the inner glass door, effectively preventing condensation on the glass and avoiding potential microbial contamination.

Purification System

Built-in HEPA filtration and purification system effectively filters bacteria and dust particles from the incoming air, achieving a 99.995% retention efficiency for particles as small as 0.3 µm.

Safety System

Includes leakage protection, over-temperature alarm, low CO2 concentration alarm, and power-on memory recovery function.

Data Storage

Equipped with a USB interface capable of storing up to 24 months of data.

Optional

High-temperature sterilization function is available as an option.

Parameter	BSCO2-36L-AC (LCD) BSC O2-TSP-36L-AC (Touch Screen)	BSCO2-80L-AC (LCD) BSCO2-TSP-80L-AC (Touch Screen)	BSCO2-180L-AC4 LCD5 BSCO2-TSP-180L-AC (Touch Screen)	BSCO2-280L-AC (LCD) BSCO2-TSP-280L-AC (Touch Screen)
Temperature Control Range	RT+3~60 2			
Temperature Resolution	0. 1 2			
Temperature Fluctuation	≤ ± 0. 1 2			
Temperature Uniformity	≤ ± 0. 3 2 (measured at 37 ° C)			
CO2 Concentration Control Range	0~20% (I0~20% (Imported infrared sensor) CO2 Control Accuracy: ±0.1%			
Humidification Method	Natural evaporation			
Power Supply	AC220V, 50HZ			
Rated Power	400W	500W	760W	980W
Internal Dimensions (W×D×H)	35x32x32cm	40x45x50cm	52x52x67cm	60x63x74cm
External Dimensions (W×D×H)	54x50x74cm	59x63x87cm	71x70x107cm	79x81x114cm
Shelves (Standard / Max)	2/4pcs	2/6pcs	3/8pcs	3/9pcs