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Medical-Biological Research & Technologies

S-Bt Smart Biotherm, Compact CO_2 Incubator

Smart Plus Product Class

DESCRIPTION



S-Bt Smart Biotherm is designed for work in the areas of cell biology (operations with animal cell cultures and tissues), molecular biology (DNA/RNA reaction analysis, hybridization reactions), biotechnology (synthesis of target proteins and other molecules), immunology (synthesis of antibodies and other proteins of immune system).

Unit provides a six-sided heating: the heating elements are located on the walls and on the door, thus providing excellent uniform temperature distribution, regardless of external factors, such as ambient temperature and positioning of the device.

Built-in infrared CO_2–sensor allows accurate control of the CO_2 level. The sensor makes measurement non-sensitive to changes in temperature and humidity inside the incubator.

The chamber is made of stainless steel with smoothed seams to minimize contamination and to facilitate cleaning.

S-Bt is equipped with a UV air recirculation system - 1 UV lamp and a fan are mounted behind the rear wall, providing decontamination of the working volume.

A convenient access port is built in the wall of the incubator for easy output of wire sensors or devices' installed inside. The access port is heated independently to prevent formation of condensate.

Unit is equipped with error tracing and alarm systems, which significantly lower potential risks during operation.

Unit is equipped with a "black box" system that records temperature, humidity and CO_2 levels, as well as statuses for door opening, UV lamp, fan and errors, to the inner memory.

Bluetooth connection to PC is available.

APPLICATION AREAS:

- Cell biology: operations with animal cell cultures and tissues
- Molecular biology: DNA/RNA reaction analysis, hybridization reactions
- Biotechnology: synthesis of target proteins and other molecules
- Immunology: synthesis of antibodies and other proteins of immune system

FEATURES:

- Six-sided heating provides uniform distribution of the temperature inside the chamber
- Infrared CO2 sensor, non-sensitive to temperature and humidity changes
- UV recirculation system for decontamination cycles
- Bluetooth data transfer to PC
- «Black box» parameter logging system
- Error tracing and alarm system
- Separately heated lockable port for chamber access for cables

CAT. NUMBER

Software included	Software included
BS-010425-A01	230VAC 50/60Hz Euro plug
BS-010425-A03	230VAC 50/60Hz UK plug
BS-010425-A02	230VAC 50/60Hz AU plug

SPECIFICATIONS

Working chamber material	Stainless Steel (1 mm)
Temperature setting range	+25°C ... +60°C
Temperature stability	±0.1°C
Temperature uniformity at +37°C	±0.3°C
Working volume	46 litres
Number of shelves	3 (max. 6)
Presence of the inner glass door	+
Relative humidity	>90% @ 37°C
Humidity delivery	Water Pan
CO2 control range*	0 – 20%
*At set temperature from ambient to 50 °C	+
CO2 sensor	Infrared CO₂ sensor
Temperature and CO2 level input	Digital
UV lamp	1 × 6 W, TUV G6T5
Data output	Wireless
Access port	1 (ø 26 mm)
Internal chamber dimensions	350 × 310 × 385 mm
Overall dimensions (W×D×H)	480 × 560 × 550 mm
Weight	37.7 kg
Power consumption	600 W
Nominal operating voltage	230V, 50/60 Hz; 115 V, 50/60 Hz

ACCESSORIES



Shelf
BS-010425-AK



Incubator stacking device
BS-010425-CK



Bluetooth adapter
BS-010425-FK