

CPS-20, CO₂ Shaker

DESCRIPTION

CO₂ Shaker **CPS-20** provides regulated orbital motion of the platform and is designed for use specifically in CO₂ incubators. CPS-20 is specifically designed for use in harsh environments such as CO₂ and humidity and provides reproducible results for cell culture growth. A choice of 5 interchangeable platforms provides the possibility of performing various procedures and techniques in various cultivation vessels. The specially designed remote controller allows for protection of electronics from CO₂ incubator environment, as well as, does not interfere with the experiment.

Shaker CPS-20 incorporates a brushless motor with a guaranteed service life up to 35,000 hours. The unit is equipped with a triple eccentric mechanism for platform motion that provides supreme balancing characteristics, superior reliability and quiet operation. Typical applications include eukaryotic cells cultivation.



SPECIFICATIONS

Speed control range	50 - 250* RPM (increment 10 rpm) *max. speed depends on the load and vessels' shape
Digital time setting	1 min–96 hrs / non–stop (increment 1 min)
Digital speed control	+
Maximum continuous operation time	168 h
Orbit	20 mm
Maximum load	3 kg
Overall dimensions (W×D×H)	255x255x100 mm
Weight	3.4 kg
Input current/power consumption	12 V, 470 mA / 5.7 W
External power supply	Input AC 100–240 V; 50/60 Hz; Output DC 12 V

CAT. NUMBER

Without platform	Without platform
BS-010172-A01	230VAC 50/60Hz Euro plug
BS-010172-A02	100-240VAC 50/60Hz Multi plug (EU, UK, AU, US)



UP-12
BS-010108-AK
platform

Universal platform with adjustable bars for different types of flasks, bottles, and beakers with silicone mat.



Bio PP-4
BS-010116-AK
platform

Flat platform with non-slip silicone mat for Petri dishes, culture flasks, agglutination.



P-12/100
BS-010108-EK
platform

Platform with clamps for flasks.



P-6/250
BS-010108-DK
platform

Platform with clamps for flasks.



P-16/88
BS-010116-BK
platform

Platform with spring holders for up to 88 tubes up to 30 mm diameter (e. g. 10 ml, 15 ml, 50 ml tubes).



HB-200
BS-010108-FK

Additional holding bar for UP-12



RS2
BS-010425-HK
rack for CPS-20 / CTR-6
installation

Rack for CPS-20 / CTR-6
installation



S-Bt Smart Biotherm
Software included + RS6, rack
with 3 shelves
Compact CO₂ Incubator

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 ...

[read more](#)

CTR-6, CO₂ Tube roller

DESCRIPTION

CO₂ Tube Roller **CTR-6** provides regulated rocking and rolling of maximum up to 6 rollers and is designed for use specifically in CO₂ incubators. CTR-6 is specifically designed for use in harsh environments such as CO₂ and humidity and provides reproducible results for cell culture growth. Possibility to remove rollers makes the unit flexible and allows for performing various procedures and techniques in various cultivation vessels. The specially designed remote controller allows for protection of electronics from CO₂ incubator environment, as well as does not interfere with the experiment.

Tube roller **CTR-6** incorporates a stepper motor with a guaranteed service life up to 10000 hours. It is possible to stack up to 3 units, saving valuable bench space. Typical applications include cells cultivation (eukaryotic, microbial) and general mixing (resuspension, viscous and liquid-solid suspensions).



SPECIFICATIONS

Speed control range	5 - 80* RPM (increment 1 rpm) *max. speed depends on the load and vessels' shape
Digital time setting	1 min–96 hrs / non–stop (increment 1 min)
Tilt angle	4°
Digital speed control	+
Maximum load	3 kg
Overall dimensions (W×D×H)	310x262x80 mm
Weight	3 kg
Input current/power consumption	12 V, 415 mA / 5 W
External power supply	Input AC 100–240 V; 50/60 Hz; Output DC 12 V

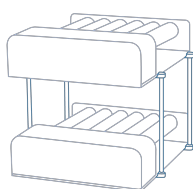
CAT. NUMBER

BS-010174-A01	230VAC 50/60Hz Euro plug
BS-010174-A02	100-240VAC 50/60Hz Multi plug (EU, UK, AU, US)

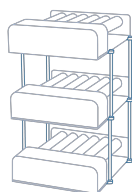


RS2
BS-010425-HK
rack for CPS-20 / CTR-6
installation

Rack for CPS-20 / CTR-6
installation



Stacking kit for 2 x CTR-6
BS-010174-BK



Stacking kit for 3 x CTR-6
BS-010174-CK



S-Bt Smart Biotherm
Software included + RS6, rack
with 3 shelves
Compact CO₂ Incubator

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 ...

[read more](#)

S-Bt Smart Biotherm, Compact CO₂ Incubator

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 CO₂-sensor allows accurate control of the CO₂ 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 CO₂ 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 + RS6, rack with 3 shelves	Software included + RS6, rack with 3 shelves
BS-010425-A01	230VAC 50/60Hz Euro plug
BS-010425-A03	230VAC 50/60Hz UK plug
BS-010425-A02	230VAC 50/60Hz AU plug
Software included + RS2, rack for CPS-20 installation	Software included + RS2, rack for CPS-20 installation
BS-010425-A10	230VAC 50/60Hz Euro plug

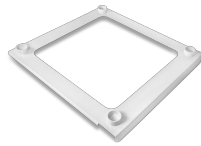
SPECIFICATIONS

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
CO ₂ control range*	0 – 20%
*At set temperature from ambient to 50 °C	+
CO ₂ sensor	Infrared CO ₂ sensor
Temperature and CO ₂ level input	Digital
UV lamp	1 × 6 W, TUV G6T5
Data output	Wireless
Access port	1 (ø 26 mm)
PC system requirements	Intel/AMD Processor, 1 GB RAM, Windows Vista/7/8/8.1/10, USB, Bluetooth
Internal chamber dimensions	350 × 330 × 390 mm
Overall dimensions (W×D×H)	500 × 560 × 550 mm
Weight	37.7 kg
Power consumption	600 W
Nominal operating voltage	230V, 50/60 Hz; 115 V, 50/60 Hz

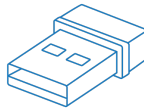
ACCESSORIES



Additional shelf
BS-010425-AK



Incubator stacking device
BS-010425-CK



Bluetooth adapter
BS-010425-FK



RS2
BS-010425-HK
rack for CPS-20 / CTR-6
installation

Rack for CPS-20 / CTR-6
installation



RS6
BS-010425-GK
rack with 3 shelves

Rack with 3 shelves



CPS-20
Without platform
CO₂ Shaker

CO₂ Shaker **CPS-20** provides regulated orbital motion of the platform and is designed for use specifically in CO₂ incubators. CPS-20 is specifically designed for use in harsh environments such as ...

[read more](#)



CTR-6
BS-010174-A01
CO₂ Tube roller

CO₂ Tube Roller **CTR-6** provides regulated rocking and rolling of maximum up to 6 rollers and is designed for use specifically in CO₂ incubators. CTR-6 is specifically designed ...

[read more](#)