

Special features

- Seamless inner chamber made of stainless steel with flanges as shelf support system
- Auto-sterilization with hot air at +180 °C
- Hot air sterilizable CO₂ sensor with single-beam infrared technology
- Double-pan humidification system with condensation protection
- Touchscreen controller
- Internal data logger, can be read out via USB interface

MORE ABOUT THIS ITEM

SESS incubators are designed to create an optimal simulation of a natural cellular growth environment. Units feature intelligent PLC with HMI based control of temperature and infrared CO₂ measurement resulting in optimal stability and fast recovery times after door openings. Humidification by water pan provides stable humidity control up to 95% RH with built-in condensation control.

The 180°C hot-air sterilization meets guidelines for GLP/GMP-compliant work, and provides absolute safety for working with pathogenic organisms. Condensation free stainless steel interior, featuring seamless, prevents particulate accumulation and facilitates clean up.

Application

CO₂ incubators are most frequently used in medical research and in the pharmaceutical industry. However, the gassed incubators are also used in other areas where cells need to be grown in sterile conditions.



Validation

There are guidelines for CO₂ incubators which are set by, for example, the pharmaceutical industry and which need to be observed. For this reason, all measurement data is recorded, checked, and archived. The Data Logger is used for this purpose.



Available sizes

- Model SESS/INU/CO₂ 60 - 53 L
- Model SESS/INU/CO₂ 170 - 170 L
- Model SESS/INU/CO₂ 260 - 267 L

Benefits

- Maximum usable space with minimal footprint and excellent ease of use
- Minimum risk of contamination thanks to uncompromising hot-air sterilization
- Fanless, easy-to-clean hygienic interior without fixtures
- Stable pH values thanks to drift-free CO₂ IR sensor technology
- Low evaporation of the medium due to high levels of humidity and quick recovery time

Important characteristics

- Temperature range: from 5 °C above ambient temperature up to 60 °C
- Humidity range: 90 to 95% RH
- CO₂ control range: 0 to 20 vol.% CO₂
- Tried-and-tested anti-contamination concept with 180 °C hot air sterilization

- CO₂ gas-mixing jet
- Hot-air sterilizable CO₂ sensor with single-beam infrared technology
- HMI touchscreen based controller
- Internal data recording, can be read out in open CSV format via USB interface
- Fail-safe CO₂ system for protecting the pH of cell cultures
- Tightly fitted inner door made of safety glass
- Seamless inner chamber made of stainless steel with flanges as shelf support system
- Perforated shelves, stainless steel
- Troubleshooting system with visual and acoustic alarms
- Interfaces: Ethernet, USB,
- Versions with O₂ control range: 0.2 to 20 vol.% O₂ or 10 to 95 vol.% O₂
- Versions with humidity control range: 50 to 95% RH due to active humidification
- Convenient water supply with reusable tubular bags, pre-filled single-liter water bottle, or water container set with magnetic holder, for versions with active humidification
- Multi-sectional glass doors with special shelves for dividing up the space to accommodate different experiments
- Stacking adapter for secure, space-saving installation
- CO₂ gas tank changer for connecting two gas tanks to one or two incubators
- CO₂ shaker with corrosion-resistant components in a stainless-steel housing
- Optional PC Software – for managing, recording, and documenting unit parameters
- Services – wide range of services to ensure that the unit functions correctly

The screenshot shows the BINDER website's product page for CO₂ incubators. The page includes a navigation menu with links for Products, Service & Support, Tips & Tricks, Blog, Download Center, News & Press, Company, and Contact. A search bar and a language selector (English) are also present. The main content area is divided into tabs: Models, Technical data, Services, Options and Accessories, and Downloads. The 'Models' tab is active, displaying a table with the following data:

Model	Housing dimensions not incl. fittings and connections W x H x D [mm]	Internal dimension W x H x D [mm]	Net weight [kg]	Interior volume [L]	Bookmark
CB 60	580 x 720 x 545	400 x 400 x 330	68	53	+
CB 170	680 x 870 x 715	560 x 600 x 505	98	170	+
CB 260	740 x 1020 x 785	620 x 750 x 575	125	267	+

At the bottom of the page, there is a link to '< back to CO₂ Incubators' and a red button labeled 'Request Series CB >'. A 'Questions?' chat bubble is also visible on the right side of the page.