

Model CB 260 | CO2 incubators with hot air sterilization and heat sterilizable CO2 sensor

The powerful and versatile CB CO₂ incubator is suitable for cell-based assays in drug and medical research. This BINDER incubator is even suitable for complex cultivation experiments or individual environments with hypoxic conditions thanks to its comprehensive assortment of options and accessories.

BENEFITS

- Safe cell cultures receive maximum protection against contamination
- Reliable constant well-being conditions for the cells
- Smart simple routine cleaning and convenient operation
- Economical efficient operation without consumables



Model 260



Model 260

IMPORTANT FEATURES

- Optimized double-pan humidification system with condensation protection
- Tried-and-tested anti-contamination concept with 180°C hot air sterilization
- Hot-air sterilizable CO₂ sensor with single-beam infrared technology
- Seamless inner chamber made of stainless steel with flanges as shelf support Interfaces: Ethernet, USB, zero-voltage alarm contact
- Fanless interior with Venturi CO₂ gas mixing nozzle

- · Intuitive touchscreen controller
- Internal data recording, can be read out in open format via USB interface
- Fault diagnosis system with visual and acoustic alarm
- Fail-safe CO₂ system for protecting the pH of cell cultures

OPTIONAL EQUIPMENT

- O_2 control with O_2 control ranges: 0.2 to 20 vol.% O_2 or 10 to 90 vol.% O_2
- Multi-sectional glass doors with special shelves for dividing up the space to accommodate different experiments
- · Stacking adapter for secure, space-saving installation
- Gas tank changer for connecting two gas tanks to one or two incubators

ORDERING INFORMATION

| Interior volu | me | Power supply - unit fuse | Plug* | Version | Model version | ArtNo. |
|---------------|-----|------------------------------|-----------|-------------------------------------|---------------|-----------|
| [L] | [L] | | | | | |
| Model CB 20 | 60 | | | | | |
| | | | CEE - /- | Standard | CB260-230V | 9640-0013 |
| 267 | 267 | 200230 V 1~ 50/60 Hz -10,0 A | CEE 7/7 | with O ₂ control 0.2–20% | CB260-230V-0 | 9640-0014 |
| | | 100120 V 1~ 50/60 Hz -16,0 A | NEMA 5-20 | Standard | CB260UL-120V | 9640-0015 |



| Interior volun | ne | Power supply - unit fuse | Plug* | Version | Model version | ArtNo. |
|----------------|-----|--------------------------|-------|-------------------------------------|----------------|-----------|
| [L] | [L] | | | | | |
| | | | | with O ₂ control 0.2–20% | CB260UL-120V-0 | 9640-0016 |



TECHNICAL DATA

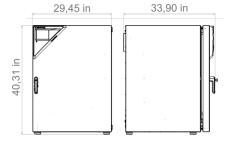
| Designation CSSC0-210V CSSC | Data | | | | |
|--|--|--------------------------|-------------------------------------|--------------------------|-------------------------------------|
| Section Sect | Data | | | | |
| Sandard Sand | Designation | CB260-230V | CB260-230V-O | CB260UL-120V | CB260UL-120V-0 |
| Performance Data Temperature range +5°C above ambient temperature 1 +6°C above 1 | Article Number | 9640-0013 | 9640-0014 | 9640-0015 | 9640-0016 |
| Femperature range 15°C above ambient temperature los 60°C 15°C above 30°C | Option model | Standard | with O ₂ control 0.2–20% | Standard | with O ₂ control 0.2–20% |
| 10 60 °C | Performance Data Temperature | | | | |
| Receivery time after door vivas policy pol | Temperature range | | | | · · |
| Receivery time after door was pepered for gos at 37°C. 6 min 6 min 6 min 6 min Performance Data Climate Ferformance Data Climate Fundinfy range 90-95 % r.f. 90-95 % r.f. <th< td=""><td>Temperature uniformity at 37°C</td><td>0.4 ± K</td><td>o.4 ± K</td><td>o.4 ± K</td><td>o.4 ± K</td></th<> | Temperature uniformity at 37°C | 0.4 ± K | o.4 ± K | o.4 ± K | o.4 ± K |
| Common of man | Temperature fluctuation at 37°C | 0.1 ± K | 0.1 ± K | 0.1 ± K | 0.1 ± K |
| Sea Data Society Soc | Recovery time after door was opened for 30 s at 37°C | 6 min | 6 min | 6 min | 6 min |
| Gas Data CO, range 020 Vol.% CO2 IR CO, recovery time after door was opened for 30 s at 5 vol. % CO2, and ard Q, control range 5 min 5 min 5 min 5 min 5 min 0.220 Vol.% Q2 1090 Vol.% Q2 15 min 15 min </td <td>Performance Data Climate</td> <td></td> <td></td> <td></td> <td></td> | Performance Data Climate | | | | |
| CO ₂ range 020 Vol.% CO ₂ 020 Vol.% CO ₂ 020 Vol.% CO ₂ 020 Vol.% CO ₂ CO ₂ measuring technology IR IR IR IR IR CO ₂ recovery time after door was opened for 30 s at 5 vol. % CO ₂ 5 min 5 min 5 min 5 min Standard O ₂ control range 1090 Vol.% O ₂ 1090 Vol.% O ₂ 1090 Vol.% O ₂ 1090 Vol.% O ₂ O ₂ recovery time after door was opened for 30 s at 5 vol. % O ₂ 15 min 15 min 15 min Selectrical data 200230 V 200230 V 100120 V 100120 V Relect Voltage 200230 V 200230 V 100120 V 100120 V Power frequency 50/60 Hz 50/60 Hz 50/60 Hz 50/60 Hz 50/60 Hz Nominal power 1.5 kW 1.5 kW 1.5 kW 1.5 kW 1.6 oA Phase (Nominal voltage) 1- 1- 1- 1- Measures 267 L 267 L 267 L 267 L | Humidity range | 9095 % r.F. | 9095 % r.F. | 9095 % r.F. | 9095 % r.F. |
| Race Race Voltage Race | Gas Data | | | | |
| 20, recovery time after door was opened for 30 s at 5 vol. % CO ₂ Standard O ₂ control range 1090 Vol. % O ₂ 1090 Vol. % O ₂ 15 min | CO ₂ range | o20 Vol% CO ₂ | o20 Vol% CO ₂ | o20 Vol% CO ₂ | o20 Vol% CO ₂ |
| Smin | CO ₂ measuring technology | IR | IR | IR | IR |
| 0. control ranges with option: O. canage 1090 Vol.% O. 2 15 min Electrical data Electrical data Rated Voltage 200230 V 200230 V 100120 V 100120 V Power frequency 50/60 Hz 50/60 Hz 50/60 Hz 50/60 Hz Nominal power 1.5 kW 1.5 k | CO ₂ recovery time after door was opened for 30 s at 5 vol. % CO ₂ | 5 min | 5 min | 5 min | 5 min |
| 15 min 1 | Standard O ₂ control range | | 0.220 Vol% O ₂ | | 0.220 Vol% O ₂ |
| 15 min 1 | O ₂ control ranges with option: O ₂ range | | 1090 Vol% O ₂ | | 1090 Vol% O ₂ |
| Rated Voltage 200230 V 100120 V 100120 V Power frequency 50/60 Hz 50/60 Hz 50/60 Hz 50/60 Hz Nominal power 1,5 kW 1,5 kW 1,5 kW 1,5 kW Unit fuse 10,0 A 10,0 A 16,0 A 16,0 A Phase (Nominal voltage) 1~ 1~ 1~ Measures 267 L 267 L 267 L 267 L | O ₂ recovery time after door was opened for 30 s at 5 vol. % O ₂ | | 15 min | | 15 min |
| Power frequency 50/60 Hz 50/60 Hz 50/60 Hz 50/60 Hz Nominal power 1,5 kW 1,5 kW 1,5 kW 1,5 kW Unit fuse 10,0 A 10,0 A 16,0 A 16,0 A Phase (Nominal voltage) 1~ 1~ 1~ Measures 267 L 267 L 267 L 267 L | Electrical data | | | | |
| Nominal power 1,5 kW 1, | Rated Voltage | 200230 V | 200230 V | 100120 V | 100120 V |
| Unit fuse 10,0 A 10,0 A 16,0 A 16,0 A Phase (Nominal voltage) 1~ 1~ 1~ Measures Interior volume 267 L 267 L 267 L 267 L | Power frequency | 50/60 Hz | 50/60 Hz | 50/60 Hz | 50/60 Hz |
| Phase (Nominal voltage) 1~ 1~ 1~ 1~ Measures Interior volume 267 L 267 L 267 L 267 L 267 L | Nominal power | 1,5 kW | 1,5 kW | 1,5 kW | 1,5 kW |
| Measures Interior volume 267 L 267 L 267 L 267 L | Unit fuse | 10,0 A | 10,0 A | 16,0 A | 16,0 A |
| Interior volume 267 L 267 L 267 L 267 L | Phase (Nominal voltage) | 1~ | 1~ | 1~ | 1~ |
| | Measures | | | | |
| Net weight of the unit (empty) 125 kg 125 kg 125 kg 125 kg | Interior volume | 267 L | 267 L | 267 L | 267 L |
| | Net weight of the unit (empty) | 125 kg | 125 kg | 125 kg | 125 kg |



| Load per rack | 10 kg | 10 kg | 10 kg | 10 kg | |
|--------------------------------------|---------------------|----------|----------|-----------|--|
| Permitted load | 40 kg | 40 kg | 40 kg | 40 kg | |
| Wall clearance back | 100 mm | 100 mm | 100 mm | 100 mm | |
| Wall clearance sidewise | 50 mm | 50 mm | 50 mm | 50 mm | |
| Housing dimensions not incl. fitting | ngs and connections | | | | |
| Width net | 740 mm | 740 mm | 740 mm | 740 mm | |
| Height net | 1,020 mm | 1,020 mm | 1,020 mm | 1,020 mm | |
| Depth net | 785 mm | 785 mm | 785 mm | 785 mm | |
| Internal Dimensions | | | | | |
| Interior width | 620 mm | 620 mm | 620 mm | 620 mm | |
| Interior height | 750 mm | 750 mm | 750 mm | 750 mm | |
| Interior depth | 575 mm | 575 mm | 575 mm | 575 mm | |
| Inner doors | 1 | 1 | 1 | 1 | |
| Unit doors | 1 | 1 | 1 | 1 | |
| Environment-specific data | | | | | |
| Sound-pressure level | 41 dB(A) | 41 dB(A) | 41 dB(A) | 41 dB(A) | |
| Energy consumption at 37°C | 65 Wh/h | 65 Wh/h | 65 Wh/h | 65 Wh/h | |
| Fixtures | | | | | |
| Number of shelves (std./max.) | 3/8 | 3/8 | 3/8 | 3/8 | |
| All | | | | 1 1 6 6 6 | |

All technical data is specified for unloaded units with standard equipment at an ambient temperature of +22 °C ±3 °C and a power supply voltage fluctuation of ±10%. The temperature data is determined to BINDER factory standard following DIN 12880, observing the recommended wall clearances of 10 % of the height, width, and depth of the inner chamber. All indications are average values, typical for units produced in series. We reserve the right to change technical specifications at any time.

DIMENSIONS Incl. fittings and connections [mm]



OPTIONS

| Designation | Description | CB 260 | * | ArtNo. |
|--------------------------------|-------------|--------|---|--------|
| Access port with silicone plug | back | | | |



| Designation | Description | CB 260 | * | ArtNo. |
|--|---|--------|----|-----------|
| | 30 mm | • | 01 | 8612-0025 |
| | left . | | | |
| | 30 mm | • | 01 | 8612-0026 |
| | right | | | |
| | 30 mm | • | 01 | 8612-0027 |
| Analog output 4-20 mA | for temperature and CO ₂ values (outputs not adjustable) | • | 02 | 8612-0022 |
| CELLROLL Set | modular, expandable roller bottle system for cell cultivation, 6 roller bottles | • | - | 8612-0024 |
| | for temperature, measurement in center of chamber at specified temperature | • | - | 8012-1132 |
| | temperature measurement incl. certificate, 9 measuring points at specified temperature | • | - | 8012-1550 |
| Calibration certificate, temperature | temperature measurement incl. certificate, 15- 18 measuring points at specified temperature | • | - | 8012-1571 |
| | temperature measurement incl. certificate and 27 measuring points at specified temperature | • | - | 8012-1592 |
| Calibration certificate, temperature and CO_2 | for temperature and CO ₂ , temperature measurement in center of chamber, CO ₂ measurement performed using test gas at 37 °C and 5 % CO ₂ | • | - | 8012-1235 |
| Calibration certificate O2 | for versions with $\rm O_2$ control; a measuring point in center of chamber at a specified O2 percentage value | • | - | 8012-0229 |
| Door hinged on the left | Unit door and standard glass inner door with door hinged on the left | • | - | 8612-0034 |
| Electric access port | 8-pin, for low voltage with LEMO socket (coverable) and LEMO plug (max. 24 V $-$ 2 A) | • | - | 8612-0033 |
| Inner door, divided | Cell therapy compartmentalization, consisting of 8 inner doors and two shelf levels with four partition wall each | • | - | 8612-0031 |
| O ₂ control range | alternative to the standard range, for controlling $\rm O_2$ concentrations between 10 and 90 vol. %, only in conjunction with option models with $\rm O_2$ control | • | - | 8612-0028 |
| Quick sample access | vewing window (13 x 25 cm) in the inner door for quick access | • | - | 8612-0032 |

ACCESSORIES

| Designation | Description | CB 260 | * | ArtNo. |
|-------------|------------------------------------|--------|---|-----------|
| | Multi Management Software APT-COM™ | | | |
| 107 001171 | version 4, BASIC edition | • | - | 9053-0039 |
| APT-COM™ 4 | version 4, GLP edition | • | - | 9053-0042 |
| | version 4, PROFESSIONAL edition | • | - | 9053-0040 |



| Designation | Description | CB 260 | * | ArtNo. |
|-----------------------------|--|--------|---|-----------|
| Base | the base equipped with casters is used for the secure positioning and leveling of a $BINDER\ CO_2$ incubator | • | - | 9051-0044 |
| | for CO_2 , consisting of a gas tank pressure regulator with connection parts and 5-meter hose | • | - | 8012-0014 |
| Gas cylinder connection set | for N2, consisting of a gas tank pressure regulator with connection parts and 5-meter hose | • | - | 8012-0016 |
| | for O2, consisting of a gas tank pressure regulator with connection parts and 5-meter hose | • | - | 8012-0015 |
| Gas tank changer | external, BINDER Gas Supply Service, for connecting 2 gas tanks (${\rm CO_2}$, ${\rm N_2}$ or ${\rm O_2}$), with audible and visual alarms, as well as zero-voltage alarm output | • | - | 8012-2344 |
| | IQ/OQ/PQ documents – supporting documents for validation performed by customers, according to customer requirements, PQ section added to qualification folder IQ/OQ; parameters: temperature, CO_2 , O_2 – or pressure, depending on unit | | | |
| | Digital in PDF format | • | - | 7057-0005 |
| | Hard copy inside folder | • | - | 7007-0005 |
| Qualification documents | IQ/OQ documents – supporting documents for validation performed by customers, consisting of: IQ/OQ checklists incl. calibration guide and comprehensive unit documentation; parameters: temperature, $\mathrm{CO_2}$, $\mathrm{O_2}$, pressure, depending on unit | | | |
| | Digital in PDF format | • | - | 7057-0001 |
| | Hard copy inside folder | • | - | 7007-0001 |
| Rubber pads | set anti-slip feet | • | - | 8012-0702 |
| Shaker "Professional" | Shaker and controller equipped with LEMO connectors, exclusively for CB with electric access port, 100 – 240 V, 50/60 Hz | • | - | 8012-1772 |
| Shaker "Universal" | Shaker and controller connected via ribbon cable, universally applicable, 100 – 240 V, 50/60 Hz | • | - | 8012-1771 |
| | Stainless steel | • | - | 8012-2183 |
| Shelf, perforated | for divided inner door | | | |
| | Stainless steel, divided | • | - | 8012-1996 |
| Stacking adapter | for the thermally isolated stacking of two BINDER CO ₂ incubators | • | - | 9051-0039 |
| Stacking frame | stable, vibration-free stacking frame on casters with stop brake for safe stacking of two CB series units | • | - | 9051-0041 |
| WLAN kit | The kit contains a client bridge that establishes a wireless connection between BINDER units and APT-COM4, LIMS, or customer-specific software via an Ethernet interface. It provides an alternative solution in situations where units need to be positioned in locations without an on-site Ethernet connection. In secured networks, installation and configuration must be performed by the customer's IT service. | • | - | 8012-2262 |
| pH-neutral detergent | concentrated, for gentle remove of residual contaminants; 1 kg | • | - | 8012-2250 |



SERVICES

| Designation | Description | * | ArtNo. |
|--|--|---|-----------|
| Calibration services | | | |
| CO ₂ calibration | ${\rm CO_2}$ calibration at a specified value, measurements are taken with analyzed test gas at 5%, including certificate. Travel to be quoted separate. | - | DL30-0401 |
| O ₂ calibration | $\rm O_2$ calibration with 1 measuring point in center of chamber at a specified $\rm O_2$ percentage value, including certificate. Travel to be quoted separate. | - | DL30-0402 |
| | Calibration of one (1) test temperature specified by the user in center of chamber, including certificate Travel to be quoted separate. | - | DL30-0101 |
| Temperature calibration | Extension of calibration of one (1) additional test temperature specified by the user in the center of the usable space, including certificate Travel to be quoted separate. | - | DL30-0102 |
| Temperature measurement, 9 measuring points | Temperature measurement with 9 measuring points with a set value specified by the user, including certificate. Travel to be quoted separate. A total of 3 shelves are required. | - | DL30-0109 |
| Temperature measurement, 18 measuring points | Temperature measurement with 18 measuring points with a set value specified by the user, including certificate. Travel to be quoted separate. A total of 2 shelves are required. | - | DL30-0118 |
| Temperature measurement, 27 measuring points | Temperature measurement with 27 measuring points with a set value specified by the user, including certificate. Travel to be quoted separate. A total of 3 shelves are required. | - | DL30-0127 |
| Installation services | | | |
| | Connect the unit to the customer-side connections (electricity, water, wastewater, gas), basic functions check, brief operating instructions. (excl.: unpacking, setup, controller instructions, programming, installation work) Travel to be quoted as separate. | - | DL10-0100 |
| Unit installation | | - | DL10-0110 |
| | Instruction regarding operating principle and basic functions of the unit, operation | - | DL10-0500 |
| Unit instructions | of the control electronics including programming. Travel to be quoted as separate Limited to 3 hours. | | DL10-0510 |
| Maintenance services | | | |
| BRONZE 3-year maintenance contract | Annual Device Inspection Includes Preventive Maintenance with Calibration Certificate. 10% Discount on Spare Parts and Labor for any additional Services needed Wear + tear parts to be purchased or billed to customer. Travel to be quoted as separate. | - | DL20-0710 |
| GOLD 3-year maintenance contract | Maintenance service as contractually agreed, visual inspection of mechanical and electrical components, check of control response, 20% discount on spare parts, testing of all key functions, replacement of wear parts, calibration of one temperature and CO_2 value, including certificate | - | DL20-0940 |
| | One-off maintenance service in accordance with maintenance schedule. Visual inspection of mechanical and electrical components, testing of all key functions. | - | DL20-0400 |
| Preventive maintenance | Checking a test temperature specified by the user in center of usable space without certificate. Wear + tear parts need to be purchased or billed to customer. Travel to be quoted as separate. | - | DL20-0440 |
| SILVER 3-year maintenance contract | Annual Device Inspection Includes Preventive Maintenance with Calibration Certificate 15% Discount on Spare Parts and Labor for any additional Services needed One additional courtesy visit per year can be used for service visit or operator training. Wear + tear parts to be purchased or billed to customer. Travel to be quoted separate. | - | DL20-0820 |
| Validation services | | | |



| Designation | Description | * | ArtNo. |
|---------------------------|--|---|-----------|
| Execution of IQ/OQ | Execution of IQ/OQ in accordance with qualification folder. Travel to be quoted separate. | - | DL41-0200 |
| Execution of IQ/OQ/PQ | Execution of IQ/OQ/PQ in accordance with qualification folder. Travel to be quoted separate. | - | DL44-0500 |
| Warranty service | | | |
| 1-year warranty extension | The warranty is extended by 1 year from the delivery date, wear parts are excluded | - | DL50-0020 |



NOTES

O1 Condensation may occur in the area around the access port. Access ports may be placed in custom locations for an additional charge.

02 UL mark is not granted when this option is used.

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