

# CO<sub>2</sub> incubators



CB-S | CB series





# CO<sub>2</sub> incubators

Series CB

Page 6

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Series CB-S Solid.Line

Page 12

Every CO<sub>2</sub> incubator from BINDER guarantees optimum, reproducible growth conditions for cell cultures. The new silicone-jacket heating system and Permadyr technology eliminate the risk of condensation. With 180 °C hot air sterilization, bacteria and spores can be reliably killed as necessary.

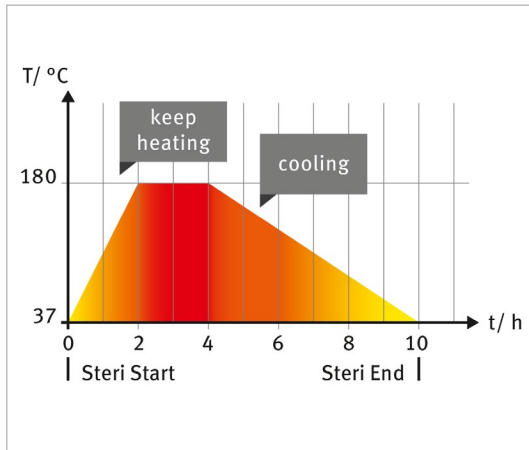
The unique, seamless inner chamber without obstructive fixtures makes cleaning very simple. Important advantages for uniformly good cell and tissue cultivation offered by Series CB and CB-S CO<sub>2</sub> incubators.

## PRODUCT SELECTION CO<sub>2</sub> INCUBATORS

Features	Series CB › Page 6	Series CB-S Solid.Line › Page 12
<b>Model</b>		
Model 56	•	–
Model 170	•	•
Model 260	•	•
<b>General data</b>		
Temperature range +4-6 °C above ambient temperature to	60 °C	–
Temperature range +4-7 °C above ambient temperature to	60	–
Temperature range +6 °C above ambient temperature to [°C]	–	50
Humidity range [% RH]	50...95	90...95
Ethernet interface	•	•
USB interface	•	•
Interner Datenlogger	•	•
Plug-in system		Flanges
Humidification system	Double water pan	Water pan
CO <sub>2</sub> sensor	IR, can be sterilized	IR, plug in
<b>Controller and timer functions</b>		
Controller display	LCD color display	LCD
Class 3.1 independent temperature safety device	•	•
Temperature alarm, acoustic	•	•
Temperature alarm, visual	•	•

•Standard equipment

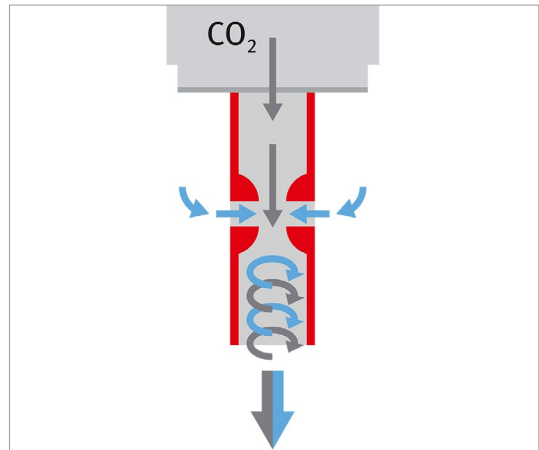
## ADVANTAGES AT A GLANCE



### MINIMAL RISK OF CONTAMINATION

Series CB, CB-S

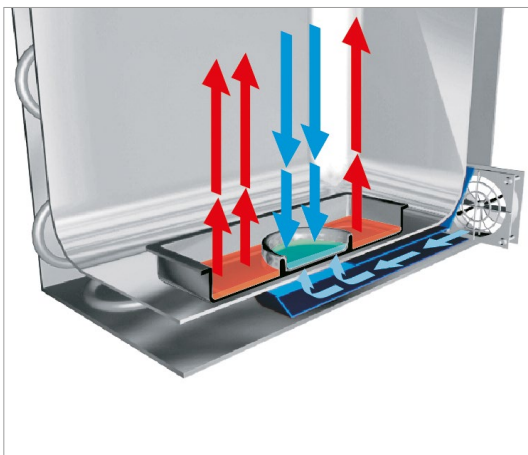
thanks to 180 °C hot air sterilization; complete sterilization of the entire interior at the push of a button. The CO<sub>2</sub> sensor is also sterilized.



### OPTIMUM CELL GROWTH

Series CB, CB-S

Stable pH values thanks to drift-free CO<sub>2</sub> sensor technology and homogeneous CO<sub>2</sub> distribution using the BINDER gas mixing head according to the Venturi principle.



### PATENTED HUMIDITY MANAGEMENT

Series CB

Active humidity management provide high humidity values of 90% to 95% RH with minimal evaporation. The PERMADRY™ double wall humidity system ensures dry interior walls.



### THE "LESS IS MORE" INTERIOR CONCEPT

Series CB, CB-S

ensures quick and easy cleaning thanks to the seamless stainless steel inner chamber, without obstructive fixtures. No consumables are required.

## Series CB | with hot air sterilization and heat sterilizable CO<sub>2</sub> sensor

The BINDER CB series CO<sub>2</sub> incubator is the premium class among the CO<sub>2</sub> incubators. It is suitable for all sensitive incubation applications and ensures optimal cell growth. A BINDER CB series CO<sub>2</sub> incubator can perform complex cultivation experiments as well as specific environmental conditions.



Model CB 170

### 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 CO<sub>2</sub> IR sensor technology
- Low evaporation of the medium due to high levels of humidity and quick recovery time

### MAIN FEATURES

- Temperature range: +4 °C above ambient temperature to +60 °C
- Humidity range: 90 to 95% RH
- CO<sub>2</sub> control range: 0 to 20 vol.% CO<sub>2</sub>
- Tried-and-tested anti-contamination concept with 180 °C hot air sterilization
- Optimized double-pan humidification system with condensation protection
- CO<sub>2</sub> gas-mixing jet with Venturi effect
- Hot-air sterilizable CO<sub>2</sub> sensor with single-beam infrared technology
- Intuitive touchscreen controller
- Internal data recording, can be read out in open format via USB interface
- Fail-safe CO<sub>2</sub> system for protecting the pH of cell cultures

### AVAILABLE SIZES

Model	Interior volume [L]	Online data sheets
CB 56	53	› <a href="https://go2binder.com/en-CB56">go2binder.com/en-CB56</a>
CB 170	170	› <a href="https://go2binder.com/en-CB170">go2binder.com/en-CB170</a>
CB 260	267	› <a href="https://go2binder.com/en-CB260">go2binder.com/en-CB260</a>

**i TIPS & TRICKS**

Benefit from our many years of experience, as demonstrated in our technical papers:

Tips & Tricks: › [go2binder.com/en-tips-tricks](https://go2binder.com/en-tips-tricks)  
 Case Studies: › [go2binder.com/en-case-studies](https://go2binder.com/en-case-studies)

## OPTIONAL EQUIPMENT

### Multiple-split inner door

Metal panel with 4/6/8 glass doors and special corresponding shelf racks make it possible to divide the space for different experiments. The interior chamber atmosphere remains stable.



### Stacking adapter

Stacking adapters support the space-saving installation and safe stacking of BINDER CO<sub>2</sub> incubators.



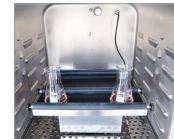
### CO<sub>2</sub> gas tank changer

Binder Gas Supply Service for connecting two gas tanks to up to two incubators, with audible and visual alarms, as well as zero-voltage alarm output.



### CO<sub>2</sub> - shaker

High-quality solution for the incubation of suspension cell cultures in CO<sub>2</sub> incubators. The exclusive use of corrosion-resistant components in the stainless steel housing makes the CO<sub>2</sub> incubator suitable for gassed incubators with increased CO<sub>2</sub> concentrations and nearly saturated air humidity.



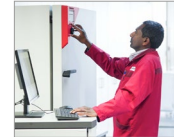
### Copper interior fittings

The kit consists of copper shelves and a copper-plated water pan. The copper equipment reduces the time and effort required for cleaning the incubator while continuing to ensure a high level of resistance to contamination.



### Services

You can access our installation, maintenance, calibration, validation, or warranty services by taking out a Maintenance Service Agreement or by simply getting in touch when you need us. More information is available in the accessories and services chapter.



### BINDER INDIVIDUAL

Using a BINDER series production product as a basis, we develop individual solutions as a single unit or in small batches. All products are tested, certified, and supplied with a full functional guarantee and warranty. More information is available in the accessories and services chapter.



► All extras online [go2binder.com/en-options](https://go2binder.com/en-options)

## TECHNICAL DATA

Description	CB 56	CB 170	CB 260
<b>Measures</b>			
Interior volume [L]	53	170	267
Net weight of the unit (empty) [kg]	53	98	125
Permitted load [kg]	30	30	40
Load per rack [kg]	10	10	10
Wall clearance back [mm]	100	100	100
Wall clearance sidewise [mm]	50	50	50
<b>Internal Dimensions</b>			
Width [mm]	400	560	620
Height [mm]	400	600	750
Depth [mm]	330	505	575
<b>Housing dimensions not incl. fittings and connections</b>			
Width net [mm]	528	680	740
Height net [mm]	674	870	1020
Depth net [mm]	545	715	785
<b>Performance Data Temperature</b>			
Temperature range +4-6 °C above ambient temperature to [°C]	60	–	60
Temperature range +4-7 °C above ambient temperature to	–	60	–
Temperature variation at 37 °C [± K]	0,3	0,3	0,4
Temperature fluctuation at 37 °C [± K]	0.1	0.1	0.1
Recovery time after 30 seconds door open at 37 °C [min]	5	6	6
<b>Performance Data Climate</b>			
Humidity range [% RH]	90...95	90...95	90...95
<b>CO<sub>2</sub>-Data</b>			
CO <sub>2</sub> range [Vol.-% CO <sub>2</sub> ]	0...20	0...20	0...20
CO <sub>2</sub> measurement	IR	IR	IR
<b>Electrical data</b>			
Nominal power (version 120 V) [kW]	0.8	1.4	1.5
Nominal power (version 230 V) [kW]	0.8	1.4	1.5
<b>Fixtures</b>			
Number of shelves (std./max.)	2/3	3/6	3/8

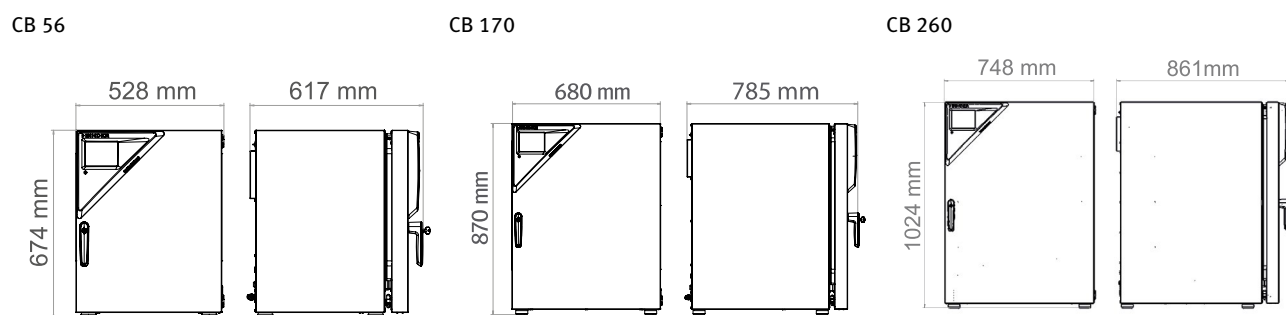
## ORDERING INFORMATION [Art. No.]

**Further details:** Go to [www.binder-world.com](http://www.binder-world.com) > Search > Enter Article Number

Voltage	Option model	CB 56	CB 170	CB 260
200...230 V 1~ 50/60 Hz	Standard	9040-0167	9040-0131	9040-0147
	with O <sub>2</sub> control	9040-0168	9040-0132	9040-0148
	with active humidification	–	9040-0133	9040-0149
	with O <sub>2</sub> control 0.2–20% and active humidification	–	9040-0134	9040-0150
100...120 V 1~ 50/60 Hz	Standard	9040-0169	9040-0139	9040-0152
	with O <sub>2</sub> control	9040-0170	9040-0140	9040-0153
	with active humidification	–	9040-0141	9040-0154
	with O <sub>2</sub> control 0.2–20% and active humidification	–	9040-0142	9040-0155



## DIMENSIONS incl. fittings and connections [mm]



## ORDERING INFORMATION OPTIONS

Designation	Description	CB 56	CB 170	CB 260	Art. No.
<b>Access port with silicone plug</b>	back 30 mm	•	•	•	8012-1390
	left 30 mm	•	•	•	8012-1391
	right 30 mm	•	•	•	8012-1392
<b>Analog output 4-20 mA</b>	for temperature and CO <sub>2</sub> values (outputs not adjustable)	•	•	•	8012-1839
	for temperature and CO <sub>2</sub> values (outputs not adjustable), for versions with O <sub>2</sub> control	•	•	•	8012-1840
<b>Calibration certificate O<sub>2</sub></b>	for versions with O <sub>2</sub> control; a measuring point in center of chamber at a specified O <sub>2</sub> percentage value	•	•	•	8012-0229
<b>Calibration certificate, expanded</b>	for temperature; for extending the measurement in center of chamber to include another test temperature	•	•	•	8012-1113
<b>Calibration certificate, temperature</b>	for temperature, measurement in center of chamber at specified temperature	•	•	•	8012-1132
	temperature measurement incl. certificate and 27 measuring points at specified temperature	•	•	•	8012-1592
	temperature measurement incl. certificate, 15- 18 measuring points at specified temperature	•	•	•	8012-1571
	temperature measurement incl. certificate, 9 measuring points at specified temperature	•	•	•	8012-1550
<b>Calibration certificate, temperature and CO<sub>2</sub></b>	for temperature and CO <sub>2</sub> , temperature measurement in center of chamber, CO <sub>2</sub> measurement performed using test gas at 37 °C and 5 % CO <sub>2</sub>	•	•	•	8012-1235
<b>CELLROLL Set</b>	modular, expandable roller bottle system for cell cultivation, 4 roller bottles	–	•	–	8012-1885
	modular, expandable roller bottle system for cell cultivation, 6 roller bottles	–	–	•	8012-0572
<b>Door hinged on the left</b>	Unit door and standard glass inner door with door hinged on the left	•	–	–	8012-1913
		–	•	–	8012-1881
		–	–	•	8012-1915
<b>Electric access port</b>	8-pin, for low voltage with LEMO socket (coverable) and LEMO plug (max. 24 V – 2 A)	•	•	•	8012-1848

Designation	Description	CB 56	CB 170	CB 260	Art. No.
<b>Inner door, divided</b>	Internal door divided into 4 parts				
	door hinged on the left (incl. option door hinged on the left)	•	–	–	8012-1927
	door hinged on the right	•	–	–	8012-1843
	Internal door divided into 6 parts				
	door hinged on the left (incl. option door hinged on the left), 120 V option model	–	•	–	8012-1889
	door hinged on the left (incl. option door hinged on the left), 230 V option model	–	•	–	8012-1880
	door hinged on the right	–	•	–	8012-1844
	Internal door divided into 8 parts				
	door hinged on the left (incl. option door hinged on the left)	–	–	•	8012-1926
door hinged on the right	–	–	•	8012-1845	
<b>Interior socket</b>	waterproof, switched flush-mounting box (LEMO) for nominal voltage in unit interior, coverable, with corresponding plug (nominal voltage; max. 3 A; protection class IP65)	–	–	–	8012-0823
<b>O<sub>2</sub> control range</b>	alternative to the standard range, for controlling O <sub>2</sub> concentrations between 10 and 95 vol. %, only in conjunction with option models with O <sub>2</sub> control	•	–	–	9419-0135
		–	•	–	9418-0207
		–	–	•	9419-0134
<b>Quick sample access</b>	viewing window (13 x 25 cm) in the inner door for quick access				
	door hinged on the left (incl. option door hinged on the left)	–	–	•	8012-1925
	door hinged on the left (incl. option door hinged on the left), 120 V option model	–	•	–	8012-1890
	door hinged on the left (incl. option door hinged on the left), 230 V option model	–	•	–	8012-1884
	door hinged on the right	–	•	–	8012-1883
	door hinged on the right	–	–	•	8012-1923

## ORDERING INFORMATION ACCESSORIES

Designation	Description	CB 56	CB 170	CB 260	Art. No.
<b>APT-COM™ 4 BASIC-Edition</b>	for simple logging and documentation requirements with up to 5 networked units. version 4, BASIC edition	•	•	•	9053-0039
<b>APT-COM™ 4 GLP-Edition</b>	for working under GLP-compliant conditions. Measured values are documented in a tamper-proof way in line with the requirements of FDA Regulation 21 CFR 11. version 4, GLP edition	•	•	•	9053-0042
<b>APT-COM™ 4 PROFESSIONAL-Edition</b>	convenient unit and user management built on the BASIC edition. Suitable for networking up to 100 units. version 4, PROFESSIONAL edition	•	•	•	9053-0040
<b>Base</b>	the base equipped with casters is used for the secure positioning and leveling of a BINDER CO <sub>2</sub> incubator	•	–	–	9051-0043
		–	•	–	9051-0028
		–	–	•	9051-0044
<b>Convenient water supply</b>	Set consisting of 10 liter water container with magnetic holder, hose adapter with practical quick coupling and water stop function, flexible positioning, enables water to be supplied to multiple CB units simultaneously via a water container, not pre-filled. for versions with active humidification	–	•	•	8009-1128
<b>Copper interior fittings</b>	Set consisting of 3 shelves (all-copper) and a water pan (copper-plated),	–	•	–	8012-1918
<b>Gas cylinder connection set</b>	for CO <sub>2</sub> , consisting of a gas tank pressure regulator with connection parts and 5-meter hose	•	•	•	8012-0014
	for N <sub>2</sub> , consisting of a gas tank pressure regulator with connection parts and 5-meter hose	•	•	•	8012-0016
	for O <sub>2</sub> , consisting of a gas tank pressure regulator with connection parts and 5-meter hose	•	•	•	8012-0015

Designation	Description	CB 56	CB 170	CB 260	Art. No.
<b>Gas tank changer</b>	external, BINDER Gas Supply Service, for connecting 2 gas tanks (CO <sub>2</sub> , N <sub>2</sub> or O <sub>2</sub> ), with audible and visual alarms, as well as zero-voltage alarm output	•	•	•	8012-0408
<b>pH-neutral detergent</b>	concentrated, for gentle remove of residual contaminants; 1 kg	•	•	•	1002-0016
<b>Qualification documents</b>	IQ/OQ documents – supporting documents for validation performed by customers, consisting of: IQ/OQ checklists incl. calibration guide and comprehensive unit documentation; parameters: temperature, CO <sub>2</sub> , O <sub>2</sub> , pressure, depending on unit				
	Digital in PDF format	•	•	•	7057-0001
	Hard copy inside folder	•	•	•	7007-0001
	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 <sub>2</sub> , O <sub>2</sub> – or pressure, depending on unit				
	Digital in PDF format	•	•	•	7057-0005
	Hard copy inside folder	•	•	•	7007-0005
<b>Rubber pads</b>	set anti-slip feet	•	•	•	8012-0702
<b>Shaker „Professional“</b>	Shaker and controller equipped with LEMO connectors, exclusively for CB with electric access port, 100 – 240 V, 50/60 Hz	–	•	•	8012-1772
<b>Shaker „Universal“</b>	Shaker and controller connected via ribbon cable, universally applicable, 100 – 240 V, 50/60 Hz	–	•	•	8012-1771
<b>Shelf, perforated</b>		•	–	–	6004-0136
	Stainless steel	–	•	–	6004-0137
		–	–	•	6004-0197
	for divided inner door				
	stainless steel	•	–	–	6004-0140
		–	•	–	8012-1888
	Stainless steel, divided	–	–	•	8012-1996
<b>Stacking adapter</b>		•	–	–	9051-0038
	for the thermally isolated stacking of two BINDER CO <sub>2</sub> incubators	–	•	–	9051-0035
		–	–	•	9051-0039
<b>Stacking frame</b>		–	•	–	9051-0040
	stable, vibration-free stacking frame on casters with stop brake for safe stacking of two CB series units	–	–	•	9051-0041
<b>Water supply</b>	Set consisting of 10 bottles, each with 1,000 ml of sterile humidification water, including peristaltic tubing, connectors, and fine gas filters				
	for versions with active humidification	–	•	•	8009-1104
	Set consisting of 12 empty, refillable tubular bags including peristaltic tubing, connectors, and fine gas filters				
	for versions with active humidification	–	•	•	8009-1058
	Set consisting of 3 empty, refillable tubular bags including peristaltic tubing, connectors, and fine gas filters				
	for versions with active humidification	–	•	•	8009-1083

## Series CB-S Solid.Line | with hot air sterilization

Series CB-S incubators are suitable for routine cell cultivation applications: They are free from contamination due to 180 °C hot-air sterilization and reliable pH stability thanks to the drift-free infrared CO<sub>2</sub> measurement system.



Model CB-S 260

### 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
- Simple and fast cleaning thanks to a seamless inner chamber

### MAIN FEATURES

- Temperature range: +6 °C above ambient temperature to +50 °C
- Humidity range: 90 to 95% RH
- CO<sub>2</sub> control range: 0 to 20 vol.% CO<sub>2</sub>
- Tried-and-tested anti-contamination concept with 180 °C hot air sterilization
- Humidification system with condensation protection
- CO<sub>2</sub> gas mixing jet with Venturi effect
- CO<sub>2</sub> sensor with infrared technology
- LCD to display temperature and CO<sub>2</sub> along with additional information and alarms
- Internal data logger, measured values can be read out in open format via USB
- Tightly fitted inner door made of safety glass



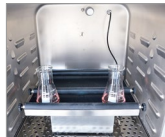


### AVAILABLE SIZES

Model	Interior volume [L]	Online data sheets
CB-S 170	170	› <a href="https://go2binder.com/en-CB-S170">go2binder.com/en-CB-S170</a>
CB-S 260	267	› <a href="https://go2binder.com/en-CB-S260">go2binder.com/en-CB-S260</a>



Find all details online: [go2binder.com/en-CB-S](https://go2binder.com/en-CB-S)

## OPTIONAL EQUIPMENT

<b>Stacking adapter</b>	Stacking adapters support the space-saving installation and safe stacking of BINDER CO <sub>2</sub> incubators.	
<b>CO<sub>2</sub> gas tank changer</b>	Binder Gas Supply Service for connecting two gas tanks to up to two incubators, with audible and visual alarms, as well as zero-voltage alarm output.	
<b>CO<sub>2</sub> - shaker</b>	High-quality solution for the incubation of suspension cell cultures in CO <sub>2</sub> incubators. The exclusive use of corrosion-resistant components in the stainless steel housing makes the CO <sub>2</sub> incubator suitable for gassed incubators with increased CO <sub>2</sub> concentrations and nearly saturated air humidity.	
<b>Copper interior fittings</b>	The kit consists of copper shelves and a copper-plated water pan. The copper equipment reduces the time and effort required for cleaning the incubator while continuing to ensure a high level of resistance to contamination.	
<b>Services</b>	You can access our installation, maintenance, calibration, validation, or warranty services by taking out a Maintenance Service Agreement or by simply getting in touch when you need us. More information is available in the accessories and services chapter.	

► All extras online [go2binder.com/en-options](https://go2binder.com/en-options)

## TECHNICAL DATA

Description	CB-S 170	CB-S 260
<b>Measures</b>		
Interior volume [L]	170	267
Net weight of the unit (empty) [kg]	90	125
Permitted load [kg]	30	40
Load per rack [kg]	10	10
Wall clearance back [mm]	100	100
Wall clearance sidewise [mm]	50	50
<b>Internal Dimensions</b>		
Width [mm]	560	620
Height [mm]	600	750
Depth [mm]	505	575
<b>Housing dimensions not incl. fittings and connections</b>		
Width net [mm]	680	740
Height net [mm]	870	1020
Depth net [mm]	715	785
<b>Performance Data Temperature</b>		
Temperature range +6 °C above ambient temperature to [°C]	50	50
Temperature variation at 37 °C [± K]	0,3	0,4
Temperature fluctuation at 37 °C [± K]	0.1	0.1
Recovery time after 30 seconds door open at 37 °C [min]	6	8
<b>Performance Data Climate</b>		
Humidity range [% RH]	90...95	90...95
<b>CO<sub>2</sub>-Data</b>		
CO <sub>2</sub> range [Vol.-% CO <sub>2</sub> ]	0...20	0...20
CO <sub>2</sub> measurement	IR	IR
<b>Electrical data</b>		
Nominal power (version 120 V) [kW]	1.3	1.5
Nominal power (version 230 V) [kW]	1.3	1.5
<b>Fixtures</b>		
Number of shelves (std./max.)	2/6	2/8

## ORDERING INFORMATION [Art. No.]

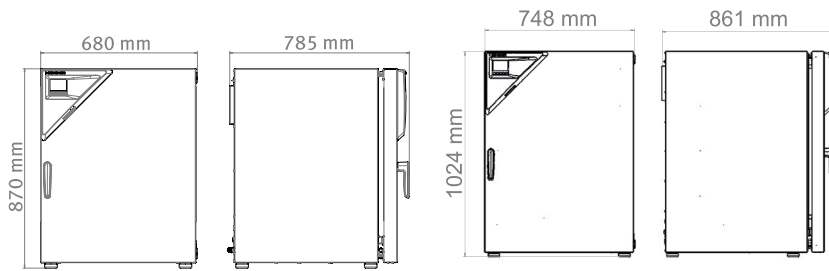
**Further details:** Go to [www.binder-world.com](http://www.binder-world.com) > Search > Enter Article Number

Voltage	Option model	CB-S 170	CB-S 260
200...230 V 1~ 50/60 Hz	Standard	9040-0189	9040-0191
100...120 V 1~ 50/60 Hz	Standard	9040-0190	9040-0192

## DIMENSIONS incl. fittings and connections [mm]

CB-S 170

CB-S 260



## ORDERING INFORMATION OPTIONS

Designation	Description	CB-S 170	CB-S 260	Art. No.
<b>Access port with silicone plug</b>	back 30 mm	•	•	8012-1974
	left 30 mm	•	•	8012-1975
	right 30 mm	•	•	8012-1976
<b>Analog output 4-20 mA</b>	for temperature and CO <sub>2</sub> values (outputs not adjustable)	•	•	8012-1977
<b>Calibration certificate, expanded</b>	for temperature; for extending the measurement in center of chamber to include another test temperature	•	•	8012-1112
	for temperature, measurement in center of chamber at specified temperature	•	•	8012-1131
	temperature measurement incl. certificate and 27 measuring points at specified temperature	•	•	8012-1591
	temperature measurement incl. certificate, 15- 18 measuring points at specified temperature	•	•	8012-1570
<b>Calibration certificate, temperature</b>	temperature measurement incl. certificate, 9 measuring points at specified temperature	•	•	8012-1549
	for temperature and CO <sub>2</sub> , temperature measurement in center of chamber, CO <sub>2</sub> measurement performed using test gas at 37 °C and 5 % CO <sub>2</sub>	•	•	8012-0228
<b>Door hinged on the left</b>	Unit door and standard glass inner door with door hinged on the left	•	–	8012-1953
<b>Door lock</b>	lockable door handle	–	•	8012-1993
<b>Door lock</b>	lockable door handle	•	•	8012-1014

## ORDERING INFORMATION ACCESSORIES

Designation	Description	CB-S 170	CB-S 260	Art. No.
<b>APT-COM™ 4 BASIC-Edition</b>	for simple logging and documentation requirements with up to 5 networked units. version 4, BASIC edition	•	•	9053-0039
<b>APT-COM™ 4 GLP-Edition</b>	for working under GLP-compliant conditions. Measured values are documented in a tamper-proof way in line with the requirements of FDA Regulation 21 CFR 11. version 4, GLP edition	•	•	9053-0042
<b>APT-COM™ 4 PROFESSIONAL-Edition</b>	convenient unit and user management built on the BASIC edition. Suitable for networking up to 100 units. version 4, PROFESSIONAL edition	•	•	9053-0040
<b>Base</b>	the base equipped with casters is used for the secure positioning and leveling of a BINDER CO <sub>2</sub> incubator	•	–	9051-0028
		–	•	9051-0044

Designation	Description	CB-S 170	CB-S 260	Art. No.
<b>Cleaning kit</b>	for equipment maintenance and disinfection, consisting of pH-neutral detergent (1000 g, concentrate), spray disinfectant (500 ml, ready-to-use solution), lint-free cleansing tissues, protective gloves, and protective glasses	•	•	8012-0503
<b>Copper interior fittings</b>	Set consisting of 2 shelves (all-copper) and a water pan (copper-plated),	•	–	8012-1997
<b>Gas cylinder connection set</b>	for CO <sub>2</sub> , consisting of a gas tank pressure regulator with connection parts and 5-meter hose	•	•	8012-0014
<b>Gas tank changer</b>	external, BINDER Gas Supply Service, for connecting 2 gas tanks (CO <sub>2</sub> , N <sub>2</sub> or O <sub>2</sub> ), with audible and visual alarms, as well as zero-voltage alarm output	•	•	8012-0408
<b>pH-neutral detergent</b>	concentrated, for gentle remove of residual contaminants; 1 kg	•	•	1002-0016
<b>Qualification documents</b>	IQ/OQ documents – supporting documents for validation performed by customers, consisting of: IQ/OQ checklists incl. calibration guide and comprehensive unit documentation; parameters: temperature, CO <sub>2</sub> , O <sub>2</sub> , pressure, depending on unit			
	Digital in PDF format	•	•	7057-0001
	Hard copy inside folder	•	•	7007-0001
	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 <sub>2</sub> , O <sub>2</sub> – or pressure, depending on unit			
	Digital in PDF format	•	•	7057-0005
	Hard copy inside folder	•	•	7007-0005
<b>Rubber pads</b>	set anti-slip feet	•	•	8012-0702
<b>Shaker „Universal“</b>	Shaker and controller connected via ribbon cable, universally applicable, 100 – 240 V, 50/60 Hz	•	•	8012-1771
<b>Shelf, perforated</b>	Stainless steel	•	–	6004-0137
		–	•	6004-0197
<b>Stacking adapter</b>	for the thermally isolated stacking of two BINDER CO <sub>2</sub> incubators	•	–	9051-0035
		–	•	9051-0039
<b>Stacking frame</b>	stable, vibration-free stacking frame on casters with stop brake for safe stacking of two CB series units	•	–	9051-0040
		–	•	9051-0041





# BINDER products

CO<sub>2</sub> incubators

Incubators

Cooling incubators

Growth chambers

Ultralow temperature freezers

Drying and heating chambers

Safety drying chambers

Vacuum drying chambers

Constant climate chambers

Dynamic climate chambers

Battery test chambers

Multi Management Software



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