

CO₂ incubators



CB-S | CB series



CO₂ incubators

Series CB

Page 6

Series CB-S Solid.Line

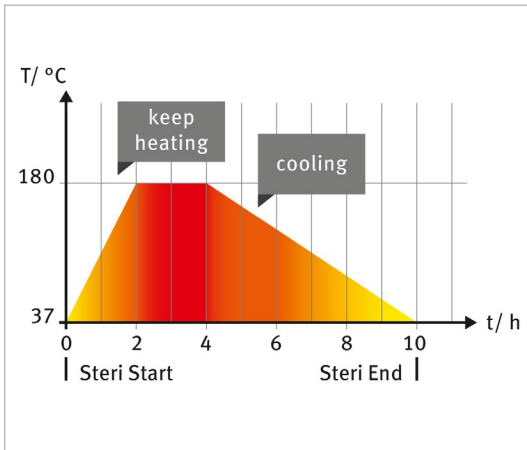
Page 12

Every CO₂ incubator from BINDER guarantees optimum, reproducible growth conditions for cell cultures. The new silicone-jacket heating system and Permadyry 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 CO₂ incubators.

PRODUCT SELECTION CO₂ INCUBATORS

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

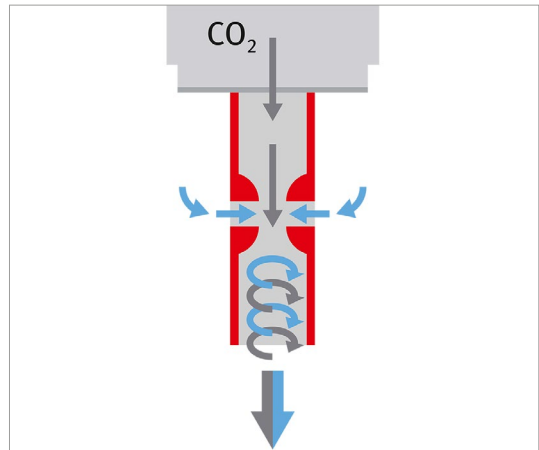
ADVANTAGES AT A GLANCE



MINIMAL RISK OF CONTAMINATION

Series CB, CB-S

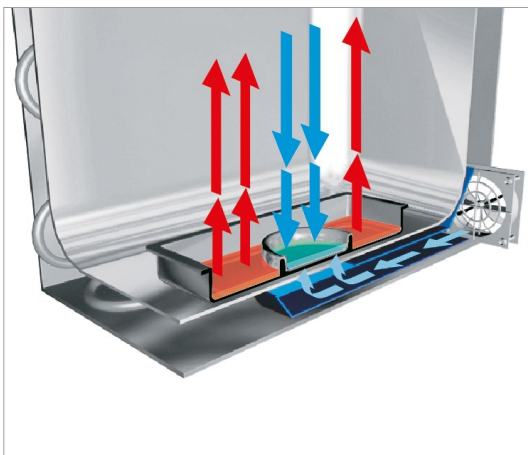
thanks to 180 °C hot air sterilization; complete sterilization of the entire interior at the push of a button. The CO₂ sensor is also sterilized.



OPTIMUM CELL GROWTH

Series CB, CB-S

Stable pH values thanks to drift-free CO₂ sensor technology and homogeneous CO₂ 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 CO₂ sensor

The BINDER CB series CO₂ incubator is the premium class among the CO₂ incubators. It is suitable for all sensitive incubation applications and ensures optimal cell growth. A BINDER CB series CO₂ 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
- 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

MAIN FEATURES

- Temperature range: from 4 °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
- Optimized double-pan humidification system with condensation protection
- CO₂ gas-mixing jet with Venturi effect
- Hot-air sterilizable CO₂ sensor with single-beam infrared technology
- Intuitive touchscreen controller
- Internal data recording, can be read out in open format via USB interface
- Fail-safe CO₂ automatic diagnosis system for protecting the pH of cell cultures

AVAILABLE SIZES

Model	Interior volume [L]	Online data sheets
CB 60	53	› go2binder.com/en-CB60
CB 170	170	› go2binder.com/en-CB170
CB 260	267	› go2binder.com/en-CB260




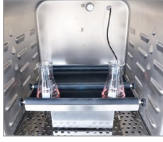

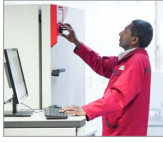



TIPS & TRICKS

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

- Tips & Tricks: › go2binder.com/en-tips-tricks
 Case Studies: › 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 ₂ incubators.	
CO₂ 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.	
CO₂ - shaker	High-quality solution for the incubation of suspension cell cultures in CO ₂ incubators. The exclusive use of corrosion-resistant components in the stainless steel housing makes the CO ₂ incubator suitable for gassed incubators with increased CO ₂ concentrations and nearly saturated air humidity.	
Copper interior	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

TECHNICAL DATA

Description	CB 60	CB 170	CB 260
Measures			
Interior volume [L]	53	170	267
Net weight of the unit (empty) [kg]	68	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
Internal Dimensions			
Width [mm]	400	560	620
Height [mm]	400	600	750
Depth [mm]	330	505	575
Housing dimensions not incl. fittings and connections			
Width net [mm]	580	680	740
Height net [mm]	720	870	1020
Depth net [mm]	545	715	785
Performance Data Temperature			
Temperature range 4-6 °C above ambient temperature to	–	–	60
Temperature range 4-7 °C above ambient temperature to	60	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]	4	6	6
Performance Data Climate			
Humidity range [% RH]	90...95	90...95	90...95
CO₂-Data			
CO ₂ range [Vol.-% CO ₂]	0...20	0...20	0...20
CO ₂ measurement	IR	IR	IR
Electrical data			
Nominal power (version 120 V) [kW]	1.0	1.4	1.5
Nominal power (version 230 V) [kW]	1.0	1.4	1.5
Fixtures			
Number of shelves (std./max.)	2/3	3/6	3/8

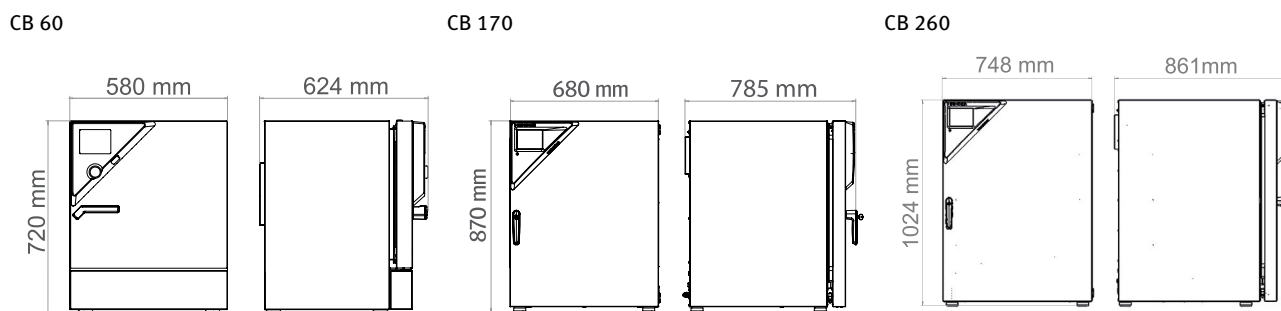
ORDERING INFORMATION [Art. No.]

Further details: Go to www.binder-world.com > Search > Enter Article Number

Voltage	Option model	CB 60	CB 170	CB 260
200...230 V 1~ 50/60 Hz	Standard	9040-0088	9040-0131	9040-0147
	with 4x divided inner door	9040-0104	–	–
	with O ₂ control	9040-0090	9040-0132	9040-0148
	with O ₂ control and with 4x divided inner door	9040-0106	–	–
	with active humidification	–	9040-0133	9040-0149
	with O ₂ control 0.2–20% and active humidification	–	9040-0134	9040-0150

Voltage	Option model	CB 60	CB 170	CB 260
100...120 V 1~ 50/60 Hz	Standard	9040-0089	9040-0139	9040-0152
	with 4x divided inner door	9040-0105	–	–
	with O ₂ control	9040-0091	9040-0140	9040-0153
	with O ₂ control and with 4x divided inner door	9040-0107	–	–
	with active humidification	–	9040-0141	9040-0154
	with O ₂ control 0.2–20% and active humidification	–	9040-0142	9040-0155

DIMENSIONS incl. fittings and connections [mm]



ORDER INFORMATION OPTIONS

Designation	Description	CB 60	CB 170	CB 260	Art. No.
Access port with silicone plug	back 30 mm	•	•	•	8012-1390
	left 30 mm	•	•	•	8012-1391
	right 30 mm	•	•	•	8012-1392
Analog output 4-20 mA	for temperature and CO ₂ values (outputs not adjustable)	–	•	•	8012-1839
	for temperature and CO ₂ values (outputs not adjustable), for versions with O ₂ control	–	•	•	8012-1840
Calibration certificate O₂	for versions with O ₂ control; a measuring point in center of chamber at a specified O ₂ percentage value	•	•	•	8012-0229
Calibration certificate, expanded	for temperature; for extending the measurement in center of chamber to include another test temperature	•	•	•	8012-1113
Calibration certificate, temperature	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
Calibration certificate, temperature and CO₂	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
CELLROLL Set	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
Door hinged on the left	Unit door and standard glass inner door with door hinged on the left	–	•	–	8012-1881
		–	–	•	8012-1915

Designation	Description	CB 60	CB 170	CB 260	Art. No.
Electric access port	8-pin, for low voltage with LEMO socket (coverable) and LEMO plug (max. 24 V – 2 A)	•	–	–	8012-0826
		–	•	•	8012-1848
Inner door, divided	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
Interior socket	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
O₂ control range	alternative to the standard range, for controlling O ₂ concentrations between 10 and 95 vol. %, only in conjunction with option models with O ₂ control	•	–	–	8012-1106
		–	•	–	9418-0207
		–	–	•	9419-0134
Quick sample access	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
		–	–	•	8012-1923

ORDER INFORMATION ACCESSORIES

Designation	Description	CB 60	CB 170	CB 260	Art. No.
APT-COM™ 4 BASIC-Edition	for simple logging and documentation requirements with up to 5 networked units. version 4, BASIC edition	•	•	•	9053-0039
APT-COM™ 4 GLP-Edition	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
APT-COM™ 4 PROFESSIONAL-Edition	convenient unit and user management built on the BASIC edition. Suitable for networking up to 100 units. version 4, PROFESSIONAL edition	•	•	•	9053-0040
Base	the base equipped with casters is used for the secure positioning and leveling of a BINDER CO ₂ incubator	•	–	–	9051-0031
		–	•	–	9051-0028
		–	–	•	9051-0044
Convenient water supply	Flexible positioning of the water container with magnetic holder, hose adapter for water container with practical quick coupling, and water stop function External, with magnetic holder	–	•	•	8009-1128
Copper interior fittings	Set consisting of 3 shelves (all-copper) and a water pan (copper-plated),	–	•	–	8012-1918
Gas cylinder connection set	for CO ₂ , consisting of a gas tank pressure regulator with connection parts and 5-meter hose	•	•	•	8012-0014
	for N ₂ , consisting of a gas tank pressure regulator with connection parts and 5-meter hose	•	•	•	8012-0016
	for O ₂ , 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 (CO ₂ , N ₂ or O ₂), with audible and visual alarms, as well as zero-voltage alarm output	•	•	•	8012-0408
pH-neutral detergent	concentrated, for gentle remove of residual contaminants; 1 kg	•	•	•	1002-0016

Designation	Description	CB 60	CB 170	CB 260	Art. No.
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, CO ₂ , O ₂ , 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 ₂ , O ₂ – or pressure, depending on unit				
Rubber pads	Digital in PDF format	•	•	•	7057-0005
	Hard copy inside folder	•	•	•	7007-0005
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
Shelf, perforated		•	–	–	6004-0136
	Stainless steel	–	•	–	6004-0137
		–	–	•	6004-0197
	for divided inner door				
	stainless steel	•	–	–	6004-0140
Stacking adapter		–	•	–	9051-0035
	for the thermally isolated stacking of two BINDER CO ₂ incubators	–	•	–	9051-0035
		–	–	•	9051-0039
Stacking frame		–	•	–	9051-0040
	stable, vibration-free stacking frame on casters with stop brake for safe stacking of two CB series units	–	–	•	9051-0041
Water supply	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
Water supply	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 CO₂ measurement system.



Model CB-S 260

BENEFITS

- Minimum risk of contamination thanks to +180 °C hot air sterilization
- Stable pH values thanks to drift-free CO₂ IR sensor technology
- High humidity up to 95% RH
- 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
- Auto-sterilization with hot air at +180 °C
- Humidification system with condensation protection
- CO₂ gas mixing jet with Venturi effect
- CO₂ sensor with infrared technology
- LCD to display temperature and CO₂ along with additional information and alarms
- Internal data logger, measured values can be read out in open format via USB
- Tightly sealed inner door made of tempered safety glass
- Seamless stainless steel inner chamber



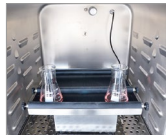


AVAILABLE SIZES

Model	Interior volume [L]	Online data sheets
CB-S 170	170	› go2binder.com/en-CB-S170
CB-S 260	267	› go2binder.com/en-CB-S260



Find all details online: go2binder.com/en-CB-S

OPTIONAL EQUIPMENT

Stacking adapter	Stacking adapters support the space-saving installation and safe stacking of BINDER CO ₂ incubators.	
CO₂ 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.	
CO₂ - shaker	High-quality solution for the incubation of suspension cell cultures in CO ₂ incubators. The exclusive use of corrosion-resistant components in the stainless steel housing makes the CO ₂ incubator suitable for gassed incubators with increased CO ₂ concentrations and nearly saturated air humidity.	
Copper interior	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.	

► All extras online go2binder.com/en-options

TECHNICAL DATA

Description	CB-S 170	CB-S 260
Measures		
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
Internal Dimensions		
Width [mm]	560	620
Height [mm]	600	750
Depth [mm]	505	575
Housing dimensions not incl. fittings and connections		
Width net [mm]	680	740
Height net [mm]	870	1020
Depth net [mm]	715	785
Performance Data Temperature		
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]	8	9
Performance Data Climate		
Humidity range [% RH]	90...95	90...95
CO₂-Data		
CO ₂ range [Vol.-% CO ₂]	0...20	0...20
CO ₂ measurement	IR	IR
Electrical data		
Nominal power (version 120 V) [kW]	1.3	1.5
Nominal power (version 230 V) [kW]	1.3	1.5
Fixtures		
Number of shelves (std./max.)	2/6	2/8

ORDERING INFORMATION [Art. No.]

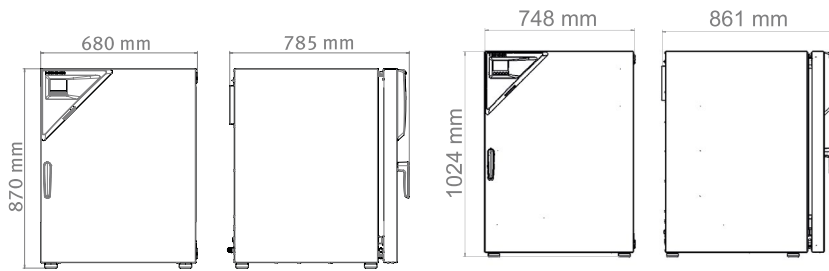
Further details: Go to www.binder-world.com > Search > Enter Article Number

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



ORDER INFORMATION OPTIONS

Designation	Description	CB-S 170	CB-S 260	Art. No.
Access port with silicone plug	back 30 mm	•	•	8012-1974
	left 30 mm	•	•	8012-1975
	right 30 mm	•	•	8012-1976
Analog output 4-20 mA	for temperature and CO ₂ values (outputs not adjustable)	•	•	8012-1977
Calibration certificate, expanded	for temperature; for extending the measurement in center of chamber to include another test temperature	•	•	8012-1112
Calibration certificate, temperature	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
	temperature measurement incl. certificate, 9 measuring points at specified temperature	•	•	8012-1549
Calibration certificate, temperature and CO₂	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	•	•	8012-0228
Door hinged on the left	Unit door and standard glass inner door with door hinged on the left	•	–	8012-1953
		–	•	8012-1993
Door lock	lockable door handle	•	•	8012-1014

ORDER INFORMATION ACCESSORIES

Designation	Description	CB-S 170	CB-S 260	Art. No.
APT-COM™ 4 BASIC-Edition	for simple logging and documentation requirements with up to 5 networked units. version 4, BASIC edition	•	•	9053-0039
APT-COM™ 4 GLP-Edition	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
APT-COM™ 4 PROFESSIONAL-Edition	convenient unit and user management built on the BASIC edition. Suitable for networking up to 100 units. version 4, PROFESSIONAL edition	•	•	9053-0040
Base	the base equipped with casters is used for the secure positioning and leveling of a BINDER CO ₂ incubator	•	–	9051-0028
		–	•	9051-0044
Cleaning kit	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
Copper interior fittings	Set consisting of 2 shelves (all-copper) and a water pan (copper-plated),	•	–	8012-1997
Gas cylinder connection set	for CO ₂ , consisting of a gas tank pressure regulator with connection parts and 5-meter hose	•	•	8012-0014
Gas tank changer	external, BINDER Gas Supply Service, for connecting 2 gas tanks (CO ₂ , N ₂ or O ₂), with audible and visual alarms, as well as zero-voltage alarm output	•	•	8012-0408
pH-neutral detergent	concentrated, for gentle remove of residual contaminants; 1 kg	•	•	1002-0016
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, CO ₂ , O ₂ , pressure, depending on unit Digital in PDF format	•	•	7057-0001
		•	•	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 ₂ , O ₂ – or pressure, depending on unit Digital in PDF format	•	•	7057-0005
		•	•	7007-0005
		•	•	7007-0005
Rubber pads	set anti-slip feet	•	•	8012-0702
Shaker „Universal“	Shaker and controller connected via ribbon cable, universally applicable, 100 – 240 V, 50/60 Hz	•	•	8012-1771
Shelf, perforated	Stainless steel	•	–	6004-0137
		–	•	6004-0197
Stacking adapter	for the thermally isolated stacking of two BINDER CO ₂ incubators	•	–	9051-0035
		–	•	9051-0039
Stacking frame	stable, vibration-free stacking frame on casters with stop brake for safe stacking of two CB series units	•	–	9051-0040
		–	•	9051-0041

BINDER products

CO₂ incubators

Incubators

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Vacuum drying chambers

Constant climate chambers

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Battery test chambers

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