

CO₂ incubators







CB-S | CBF | CB series

CO₂ incubators

Series CB-S Solid.Line	Page 6
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BINDER CO₂ incubators are safe, reliable, smart, and economical. So they are perfect for every cell culture laboratory. The CB-S series masters common standard applications such as cell production with ease. The CB series is also recommended for cell-based assays and is indispensable to the development of active pharmaceutical ingredient and in the field of medical research. With its high-end features, the CBF series even proves its worth in the GMP environments found in the stem cell research and cell therapy sectors. All models are impressively easy to use and clean and stand out thanks to their pioneering BINDER anti-contamination concept.

$\mathsf{PRODUCT}\,\mathsf{SELECTION}\,\mathsf{CO_2}\,\mathsf{INCUBATORS}$

Features	Series CB-S Solid.Line > Page 6	Series CB > Page 11	Series CBF
Model			
Model 56	_	•	_
Model 170	•	•	•
Model 260	•	•	•
General data			
Temperature range +6 °C above ambient temperature to [°C]	50	-	60
Temperature range +4-6 °C above ambient temperature to [°C]	-	60	-
Temperature range +5-6 °C above ambient temperature to [°C]	_	60	_
Temperature range +5-7 °C above ambient temperature to [°C]	_	-	60
Humidity range [% RH]	9095	9095	5095

•Standard equipment

ADVANTAGES AT A GLANCE



RELIABLE

Series CB-S, CB, CBF

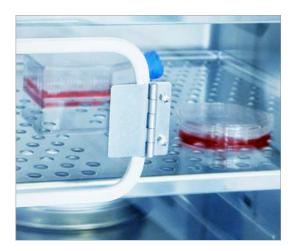
Well-being conditions for the cells at all times thanks to fast and precise CO₂ and temperature control.



COST-EFFECTIVE

Series CB-S, CB, CBF

Affordable hot-air sterilization without consumables.



SMART

Series CB-S, CB, CBF

Effortless routine cleaning due to obstacle-free interior with rounded corners.



SAFE

Series CB-S, CB, CBF

Maximum contamination protection due to fanless interior and uncompromising 180 °C sterilization.

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

The durable and affordable CB-S series incubators are suitable for routine cell cultivation applications in the field of cell production, particularly in academic settings. They are contamination-proof due to 180 °C hot air sterilization and reliably pH-stable thanks to the drift-free infrared CO_2 measurements conducted in real time.



Model CB-S 260

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



MAIN FEATURES

- Temperature range: +6 °C above ambient temperature to +50 °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
- 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 fitted inner door made of safety glass

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	

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.	17 Juniors
CO ₂ - 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 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.	

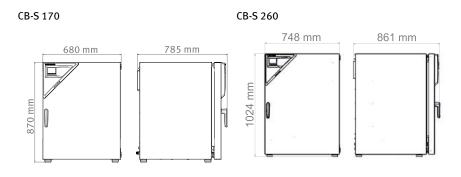
TECHNICAL DATA

Description	CB-S 170	CB-S 260
Measures		
Interior volume [L]	170	267
Net weight of the unit (empty) [kg]	96	122
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]	6	8
Performance Data Climate		
Humidity range [% RH]	9095	9095
CO ₂ -Data		
CO ₂ range [Vol% CO ₂]	020	020
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
200230 V 1~ 50/60 Hz	Standard	9640-0001	9640-0003
	with Access port 30 mm left	9640-0029	-
100120 V 1~ 50/60 Hz	Standard	9640-0002	9640-0004
	with Access port 30 mm left	9640-0030	-

DIMENSIONS incl. fittings and connections [mm]



ORDERING INFORMATION OPTIONS

Designation	Description	CB-S 170	CB-S 260	Art. No.
	back			
	30 mm	•	•	8612-0017
Access port with	left			
silicone plug	30 mm	•	•	8612-0018
	right			
	30 mm	•	•	8612-0019
Analog output 4-20 mA	for temperature and CO_2 values (outputs not adjustable)	•	•	8612-0016
Calibration certificate, expanded	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
Calibration certificate,	temperature measurement incl. certificate and 27 measuring points at specified tempera- ture	•	•	8012-1591
temperature	temperature measurement incl. certificate, 15- 18 measuring points at specified tempera- ture	•	•	8012-1570
	temperature measurement incl. certificate, 9 measuring points at specified temperature	•	•	8012-1549
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	•	•	8012-0228
Door hinged on the left	Unit door and standard glass inner door with door hinged on the left	•	•	8612-002
Door lock	lockable door handle	•	•	8612-002

ORDERING INFORMATION ACCESSORIES

Designation	Description	CB-S 170	CB-S 260	Art. No.
APT-COM™ 4	for simple logging and documentation requirements with up to 5 networked units.			
BASIC-Edition	version 4, BASIC edition	•	•	9053-0039
APT-COM™ 4	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.			
GLP-Edition	version 4, GLP edition	•	•	9053-0042
APT-COM™ 4	convenient unit and user management built on the BASIC edition. Suitable for networking up to 100 units.			
PROFESSIONAL-Edition	version 4, PROFESSIONAL edition	•	•	9053-0040
_	the base equipped with casters is used for the secure positioning and leveling of a BINDER	•	-	9051-0028
Base	CO ₂ incubator	-	•	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

Designation	Description Description		CB-S 260	Art. No.
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	•	•	8012-2250
	IQ/OQ documents – supporting documents for validation performed by customers, consi- sting 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
Qualification	Hard copy inside folder	•	•	7007-0001
documents	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
Rubber pads	set anti-slip feet	•	•	8012-2030
Shaker "Universal"	Shaker and controller connected via ribbon cable, universally applicable, 100 – 240 V, 50/60 Hz	•	•	8012-1771
		•	-	8012-2167
Shelf, perforated	Stainless steel	-	•	8012-2183
		•	-	9051-0035
Stacking adapter	for the thermally isolated stacking of two BINDER CO_2 incubators	_	•	9051-0039
	stable, vibration-free stacking frame on casters with stop brake for safe stacking of two CB	• _	-	9051-0040
Stacking frame	series units	_ •		9051-0041
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

Series CB | 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.



Model CB 170

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



MAIN 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 system
- 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
- Interfaces: Ethernet, USB, zero-voltage alarm contact
- Fail-safe CO₂ system for protecting the pH of cell cultures

AVAILABLE SIZES

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Model	Interior volume [L]	Online data sheets
CB 56	53	> go2binder.com/en-CB56
CB 170	170	> go2binder.com/en-CB170
CB 260	267	> go2binder.com/en-CB260

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.	
CO ₂ - 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 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

TECHNICAL DATA

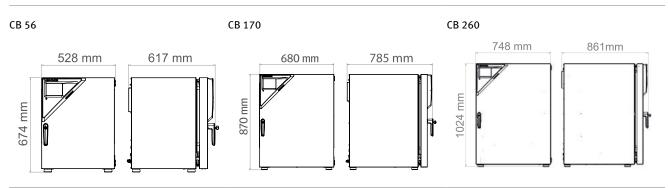
Description	CB 56	CB 170	CB 260
Measures			
Interior volume [L]	53	170	267
Net weight of the unit (empty) [kg]	53	98	125
Permitted load [kg]	30	30	40
Load per rack [kg]	10	10	10
Wall clearance back [mm]	100	100	100
Wall clearance sidewise [mm]	50	50	50
Internal Dimensions			
Width [mm]	400	560	620
Height [mm]	400	600	750
Depth [mm]	330	505	575
Housing dimensions not incl. fittings and connections			
Width net [mm]	528	680	740
Height net [mm]	674	870	1020
Depth net [mm]	545	715	785
Performance Data Temperature			
Temperature range +4-6 °C above ambient temperature to [°C]	60	60	-
Temperature range +5-6 °C above ambient temperature to [°C]	-	-	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
Performance Data Climate			
Humidity range [% RH]	9095	9095	9095
CO ₂ -Data			
CO ₂ range [Vol% CO ₂]	020	020	020
CO ₂ measurement	IR	IR	IR
Electrical data			
Nominal power (version 120 V) [kW]	0.8	1.4	1.5
Nominal power (version 230 V) [kW]	0.8	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 56	CB 170	CB 260
200230 V 1~ 50/60 Hz	Standard	9640-0005	9640-0009	9640-0013
	with Access port 30 mm left	-	9640-0027	-
	with O ₂ control 0.2–20%	-	9640-0010	9640-0014
	Standard	9640-0007	9640-0011	9640-0015
100120 V 1~ 50/60 Hz	with Access port 30 mm left	-	9640-0028	-
	with O ₂ control 0.2–20%	-	9640-0012	9640-0016

DIMENSIONS incl. fittings and connections [mm]



ORDERING INFORMATION OPTIONS

Designation	Description	СВ 56	CB 170	CB 260	Art. No.
	back				
	30 mm	•	•	•	8612-002
Access port with	left				
silicone plug	30 mm	•	•	•	8612-002
	right				
	30 mm	•	•	•	8612-002
Analog output 4-20 mA	for temperature and CO_2 values (outputs not adjustable)	•	•	•	8612-002
Calibration certificate O ₂	for versions with O_2 control; a measuring point in center of chamber at a specified O_2 percentage value	-	•	•	8012-022
	for temperature, measurement in center of chamber at specified temperature	•	•	•	8012-113
Calibration certificate,	temperature measurement incl. certificate and 27 measuring points at specified temperature	•	•	•	8012-159
temperature	temperature measurement incl. certificate, 15- 18 measuring points at specified temperature	•	•	•	8012-157
	temperature measurement incl. certificate, 9 measuring points at specified tempe- rature	•	•	•	8012-155
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	•	•	•	8012-123
	modular, expandable roller bottle system for cell cultivation, 4 roller bottles	-	•	-	8612-002
CELLROLL Set	modular, expandable roller bottle system for cell cultivation, 6 roller bottles	-	-	•	8612-002
Door hinged on the left	Unit door and standard glass inner door with door hinged on the left	•	•	•	8612-003
Electric access port	8-pin, for low voltage with LEMO socket (coverable) and LEMO plug (max. 24 V – 2 A)	•	•	•	8612-003
	Cell therapy compartmentalization, consisting of 4 inner doors and two shelf levels with one partition wall each	•	_	-	8612-002
Inner door, divided	Cell therapy compartmentalization, consisting of 6 inner doors and three shelf levels with one partition wall each	_	•	-	8612-003
	Cell therapy compartmentalization, consisting of 8 inner doors and four shelf levels with one partition wall each	-	_	•	8612-003
O ₂ 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	-	•	•	8612-002
Quick sample access	vewing window (13 x 25 cm) in the inner door for quick access	-	•	•	8612-003

ORDERING INFORMATION ACCESSORIES

Designation	Description	CB 56	CB 170	CB 260	Art. No.
APT-COM™ 4	for simple logging and documentation requirements with up to 5 networked units.				
BASIC-Edition	version 4, BASIC edition	•	•	•	9053-003
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.				
JLF-Edition	version 4, GLP edition	•	•	•	9053-004
APT-COM™ 4 PROFESSIONAL-Edition	convenient unit and user management built on the BASIC edition. Suitable for networking up to 100 units.				
-ROFESSIONAL-EUILIOII	version 4, PROFESSIONAL edition	•	•	•	9053-004
Base		•	-	-	9051-004
	the base equipped with casters is used for the secure positioning and leveling of a BINDER CO, incubator	-	•	-	9051-002
		-	-	•	9051-004
Copper interior fittings	Set consisting of 3 shelves (all-copper) and a water pan (copper-plated),	-	•	_	8012-1918
	for CO ₂ , consisting of a gas tank pressure regulator with connection parts and 5-meter hose	•	•	•	8012-001
Gas cylinder connection set	for N_2 , consisting of a gas tank pressure regulator with connection parts and 5-meter hose	_	•	•	8012-001
	for O_2 , consisting of a gas tank pressure regulator with connection parts and 5-meter hose	-	•	•	8012-001
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	•	•	•	8012-040
oH-neutral detergent	concentrated, for gentle remove of residual contaminants; 1 kg	•	•	•	8012-225
	IQ/OQ documents – supporting documents for validation performed by custo- mers, 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	•	•	•	7057-000
Qualification docu-	Hard copy inside folder	•	•	•	7007-000
nents	IQ/OQ/PQ documents – supporting documents for validation performed by custo- mers, 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	•	•	•	7057-000
	Hard copy inside folder	•	•	•	7007-000
Rubber pads	set anti-slip feet	•	•	•	8012-2030
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
		•	-	_	8012-216
	Stainless steel	_	•	-	8012-2167
		_	-	•	8012-2183
Shelf, perforated	for divided inner door				
	stainless steel	•	-	-	8012-2058
		_	•	_	8012-188
				•	8012-199
	Stainless steel, divided	-	-		
	Stainless steel, divided	•	_	_	
Stacking adapter					9051-003
Stacking adapter	Stainless steel, divided for the thermally isolated stacking of two BINDER CO ₂ incubators	•	-	-	9051-003 9051-003
Stacking adapter		•	•	-	9051-003

Designation	Description	CB 56	CB 170	CB 260	Art. No.
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 net- works, installation and configuration must be performed by the customer's IT service.	•	•	•	8012-2262

Series CBF | with hot air sterilization and humidity regulation

The BINDER CBF is the high-end CO₂ incubator with humidity control that is suitable for all sensitive incubation applications in GMP environments. It ensures consistent results including in cell-based assays with multiwell plates. 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.



Model CBF 170

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



MAIN FEATURES

- Contamination-safe humidification system without water pan
- 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 system
- Fanless interior with Venturi CO₂ gas mixing nozzle
- Intuitive touchscreen controller
- Internal data logger, measured values can be read out in open format via USB
- Troubleshooting system with visual and acoustic alarms
- Interfaces: Ethernet, USB, zero-voltage alarm contact
- Fail-safe CO₂ system for protecting the pH of cell cultures

AVAILABLE SIZES

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Model	Interior volume [L]	Online data sheets
CBF 170	170	> go2binder.com/en-CBF170
CBF 260	267	> go2binder.com/en-CBF260

OPTIONAL EQUIPMENT

Metal panel with 4/6/8 glass doors and special corresponding shelf racks with partition wall make it possible to divide the space for different culture processing applications. Particularly suitable for critical applications such as cell therapy, gene therapy or stem cell research.	
Stacking adapters support the space-saving installation and safe stacking of BINDER CO_2 incubators.	
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.	2 Contraction
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.	
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.	
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.	-
	 wall make it possible to divide the space for different culture processing applications. Particularly suitable for critical applications such as cell therapy, gene therapy or stem cell research. Stacking adapters support the space-saving installation and safe stacking of BINDER CO₂ incubators. 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. High-quality solution for the incubation of suspension cell cultures in CO₂ incubators. The exclusive use of corrosion-resistant components in the stainless steel housing makes the CO₂ incubator suitable for gassed incubators with increased CO₂ concentrations and nearly saturated air humidity. 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. 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

All extras online go2binder.com/en-options

TECHNICAL DATA

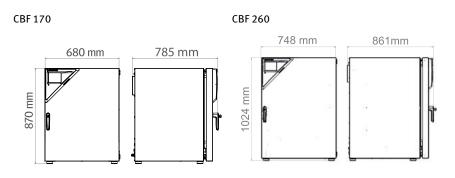
Description	CBF 170	CBF 260
Measures		
Interior volume [L]	170	267
Net weight of the unit (empty) [kg]	95	125
Permitted load [kg]	30	40
Load per rack [kg]	10	10
Wall clearance back [mm]	100	100
Wall clearance sidewise [mm]	50	50
Internal Dimensions		
Width [mm]	560	620
Height [mm]	600	750
Depth [mm]	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 +5-7 °C above ambient temperature to [°C]	60	-
Temperature range +6 °C above ambient temperature to [°C]	-	60
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	6
Performance Data Climate		
Humidity range [% RH]	5095	5095
CO ₂ -Data		
CO ₂ range [Vol% CO ₂]	020	020
CO ₂ measurement	IR	IR
Electrical data		
Nominal power (version 120 V) [kW]	1.4	1.5
Nominal power (version 230 V) [kW]	1.4	1.5
Fixtures		
Number of shelves (std./max.)	3/6	3/8

ORDERING INFORMATION [Art. No.]

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

Voltage	Option model	CBF 170	CBF 260
	Standard	9640-0017	9640-0021
200230 V 1~ 50/60 Hz	with O ₂ control 0.2–20%	9640-0018	9640-0022
	with O_2 control 0.2–20% and cell therapy compartmentalization	-	9640-0025
	Standard	9640-0019	9640-0023
100120 V 1~ 50/60 Hz	with O ₂ control 0.2–20%	9640-0020	9640-0024
	withO ₂ control 0.2–20% and cell therapy compartmentalization	-	9640-0026

DIMENSIONS incl. fittings and connections [mm]



ORDERING INFORMATION OPTIONS

Designation	Description	CBF 170	CBF 260	Art. No.
	back			
	30 mm	•	•	8612-0025
Access port with sili-	left			
cone plug	30 mm	•	•	8612-002
	right			
	30 mm	•	•	8612-0027
Analog output 4-20 mA	for temperature and $\rm CO_2$ values (outputs not adjustable)	•	•	8612-0022
Calibration certificate O ₂	for versions with $\rm O_2$ control; a measuring point in center of chamber at a specified $\rm O_2$ percentage value	•	•	8012-0229
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 tempera- ture	•	•	8012-1592
	temperature measurement incl. certificate, 15- 18 measuring points at specified tempera- ture	•	•	8012-1571
	temperature measurement incl. certificate, 9 measuring points at specified temperature	•	•	8012-1550
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	•	•	8012-123
CELLROLL Set	modular, expandable roller bottle system for cell cultivation, 4 roller bottles	•	-	8612-002
CELLROLL Set	modular, expandable roller bottle system for cell cultivation, 6 roller bottles	-	•	8612-002
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)	•	•	8612-003
Innerdeer divided	Cell therapy compartmentalization, consisting of 6 inner doors and three shelf levels with one partition wall each	•	-	8612-003
Inner door, divided	Cell therapy compartmentalization, consisting of 8 inner doors and four shelf levels with one partition wall each	-	•	8612-003
O ₂ 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	•	•	8612-002
Quick sample access	vewing window (13 x 25 cm) in the inner door for quick access	•	•	8612-003

ORDERING INFORMATION ACCESSORIES

Designation	Description	CBF 170	CBF 260	Art. No.
APT-COM™ 4	for simple logging and documentation requirements with up to 5 networked units.			
BASIC-Edition	version 4, BASIC edition	•	•	9053-0039

Designation	Description	CBF 170	CBF 260	Art. No.
APT-COM™ 4	for working under GLP-compliant conditions. Measured values are documented in a tam- per-proof way in line with the requirements of FDA Regulation 21 CFR 11.			
GLP-Edition	version 4, GLP edition	•	•	9053-004
APT-COM™ 4	convenient unit and user management built on the BASIC edition. Suitable for networking up to 100 units.			
PROFESSIONAL-Edition	version 4, PROFESSIONAL edition	•	•	9053-004
Paco	the base equipped with casters is used for the secure positioning and leveling of a BINDER	•	-	9051-002
Base	CO ₂ incubator	-	•	9051-004
Convenient water supply	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	•	•	8009-112
	for CO ₂ , consisting of a gas tank pressure regulator with connection parts and 5-meter hose	•	•	8012-001
Gas cylinder connection set	for N_2 , consisting of a gas tank pressure regulator with connection parts and 5-meter hose	•	•	8012-001
	for O_2 , consisting of a gas tank pressure regulator with connection parts and 5-meter hose	•	•	8012-001
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	•	•	8012-040
pH-neutral detergent	concentrated, for gentle remove of residual contaminants; 1 kg	•	•	8012-225
	IQ/OQ documents – supporting documents for validation performed by customers, consi- sting 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	•	•	7057-000
Qualification	Hard copy inside folder	•	•	7007-000
documents	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	•	•	7057-000
	Hard copy inside folder	•	•	7007-000
Rubber pads	set anti-slip feet	•	•	8012-203
Shaker "Professional"	Shaker and controller equipped with LEMO connectors, exclusively for CB with electric access port, 100 – 240 V, 50/60 Hz	•	•	8012-177
Shaker "Universal"	Shaker and controller connected via ribbon cable, universally applicable, 100 – 240 V, 50/60 Hz	•	•	8012-177
	Stainless steel	•	-	8012-216
		-	•	8012-218
Shelf, perforated	for divided inner door			
	Stainless steel, divided	•	-	8012-188
		-	•	8012-199
Stacking adapter	for the thermally isolated stacking of two BINDER CO, incubators	•	-	9051-003
		-	•	9051-003
Stacking frame	stable, vibration-free stacking frame on casters with stop brake for safe stacking of two CB	•	-	9051-004
	series units	-	•	9051-004
	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	•	•	8009-110
Water supply	Set consisting of 12 empty, refillable tubular bags including peristaltic tubing, connectors, and fine gas filters			
	for versions with active humidification	•	•	8012-225
	Set consisting of 3 empty, refillable tubular bags including peristaltic tubing, connectors, and fine gas filters			
	for versions with active humidification	•	•	8012-225

Designation	Description	CBF 170	CBF 260	Art. No.
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

BINDER products

CO ₂ 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
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