

CO₂ incubators







CB-S | CB series

CO₂ incubators

Series CB

Page 6

Series CB-S Solid.Line

Page 12

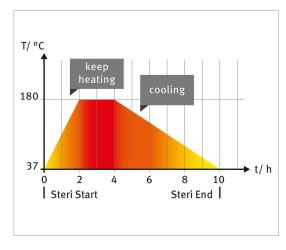
Every CO₂ incubator from BINDER guarantees optimum, reproducible growth conditions for cell cultures. The proven APT.line[™] air jacket system and Permadry technology eliminate the risk of condensation. Thanks to 180 °C hot-air sterilization, bacteria and spores are eliminated.

The unique, seamless deep-drawn inner chamber without built-in obstructions makes cleaning very simple. These are important advantages for uniformly good cell and tissue cultivation, which BINDER Series CB and CB-S CO₂ incubators offer as standard.

PRODUCT SELECTION CO₂ INCUBATORS

Features	Series CB > Page 6	Series CB-S Solid.Line > Page 12
Model		
Model 56	•	-
Model 170	•	•
Model 260	•	•
General data		
Temperature range +4-6 °C above ambient tem- perature to	60 °C	-
Temperature range +4-7 °C above ambient tem- perature to	60	-
Temperature range +6 °C above ambient tempe- rature to [°C]	-	50
Humidity range [% RH]	5095	9095
Ethernet interface	•	•
USB interface	•	•
Interner Datenlogger	•	•
Plug-in system	Flar	iges
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		

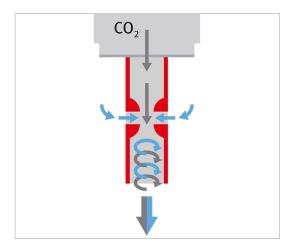
ADVANTAGES AT A GLANCE



MINIMAL RISK OF CONTAMINATION

Series CB, CB-S

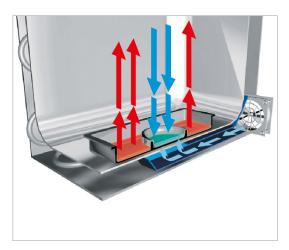
With 180 °C hot-air sterilization, complete sterilization of the entire interior is available at the push of a button. In the CB series, the CO_2 sensor is also sterilized.



OPTIMUM CELL GROWTH

Series CB, CB-S

Stable pH values are attained with drift-free CO_2 sensor technology and homogeneous CO_2 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 CO_2 incubator is the premium class among the CO_2 incubators. It is suitable for all sensitive incubation applications and ensures optimal cell growth. A BINDER CB series CO_2 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 CO₂ 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
- 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 system for protecting the pH of cell cultures

AVAILABLE SIZES

Model	Interior volu- me [cu. ft.]	Online data sheets
CB 56	1.9	› go2binder.com/us-CB60
CB 170	6	› go2binder.com/us-CB170
CB 260	9.4	› go2binder.com/us-CB260

TIPS & TRICKS

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

Tips & Tricks:	>go2binder.com/us-tips-tricks
Case Studies:	>go2binder.com/us-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.	
CO ₂ 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.	E Barrisen
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.	- 20
All extras online go2bin	der.com/us-options	

TECHNICAL DATA

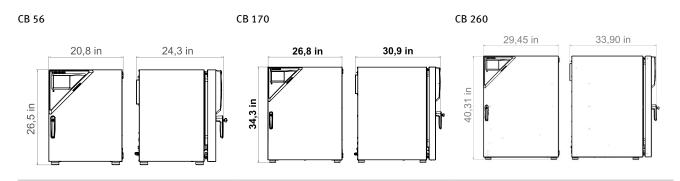
Description	CB 56	CB 170	CB 260
Measures			
Interior volume [cu.ft.]	1.9	6	9.4
Net weight of the unit (empty) [lbs]	117	216	276
Permitted load [lbs]	66	66	88
Load per rack [lbs]	22	22	22
Wall clearance back [in]	3.94	3.94	3.94
Wall clearance sidewise [in]	1.97	1.97	1.97
Internal Dimensions			
Width [in]	15.76	22.06	24.43
Height [in]	15.76	23.64	29.55
Depth [in]	13	19.9	22.65
Housing dimensions not incl. fittings and connections			
Width net [in]	20.8	26.79	29.16
Height net [in]	26.56	34.28	40.2
Depth net [in]	21.47	28.17	30.93
Performance Data Temperature			
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
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
	Standard	9040-0167	9040-0131	9040-0147
200 2201/4 50/6011-	with O ₂ control	9040-0168	9040-0132	9040-0148
200230 V 1~ 50/60 Hz	with active humidification	-	9040-0133	9040-0149
	with O_2 control 0.2–20% and active humidification	-	9040-0134	9040-0150
	Standard	9040-0169	9040-0139	9040-0152
100 100 14 50/60 11-	with O ₂ control	9040-0170	9040-0140	9040-0153
100120 V 1~ 50/60 Hz	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]



ORDERING INFORMATION OPTIONS

Designation	Description	CB 56	CB 170	CB 260	Art. No.
	back				
	30 mm	•	•	•	8012-139
Access port with	left				
silicone plug	30 mm	•	• •		8012-139
	right				
	30 mm	•	•	•	8012-139
	for temperature and CO ₂ values (outputs not adjustable)	•	•	•	8012-183
Analog output 4-20 mA	for temperature and $\rm CO_2$ values (outputs not adjustable), for versions with $\rm O_2$ control	•	•	•	8012-184
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
Calibration certificate, expanded	for temperature; for extending the measurement in center of chamber to include another test temperature	•	•	•	8012-111
	for temperature, measurement in center of chamber at specified temperature	•	•	•	8012-113
	temperature measurement incl. certificate and 27 measuring points at specified temperature	•	•	•	8012-1592
Calibration certificate, temperature	temperature measurement incl. certificate, 15-18 measuring points at specified temperature	•	•	•	8012-157
	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
	modular, expandable roller bottle system for cell cultivation, 4 roller bottles	-	•	-	8012-188
CELLROLL Set	modular, expandable roller bottle system for cell cultivation, 6 roller bottles	-	-	•	8012-057
		•	_	-	8012-191
Door hinged on the left	Unit door and standard glass inner door with door hinged on the left	-	•	-	8012-188
		-	-	•	8012-191
Electric access port	8-pin, for low voltage with LEMO socket (coverable) and LEMO plug (max. 24 V – 2 A)	•	•	•	8012-184

Designation	Description	CB 56	CB 170	CB 260	Art. No.
	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
Inner door, divided	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
		•	-	-	9419-0135
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	_	•	-	9418-0207
	and $\frac{1}{2}$ with $\frac{1}{2}$ control	_	-	•	9419-0134
	vewing 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
Quick sample access	door hinged on the left (incl. option door hinged on the left), 230 V option model	-	•	-	8012-1884
	de coltrare d'an the state	-	•	-	8012-1883
	door hinged on the right	_	-	•	8012-1923

ORDERING INFORMATION ACCESSORIES

Designation	Description	CB 56	CB 170	CB 260	Art. No.
		•	_	_	9051-0043
Base	the base equipped with casters is used for the secure positioning and leveling of a BINDER CO, incubator	-	•	-	9051-0028
		-	_	•	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.				
	External, with magnetic holder	-	•	•	8009-112
Copper interior fittings	Set consisting of 3 shelves (all-copper) and a water pan (copper-plated),	-	•	_	8012-191
Gas cylinder connection set	for CO_2 , consisting of a gas tank pressure regulator with connection parts and 5-meter hose	•	•	•	8012-001
	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
	Multi Management Software APT-COM™				
Multi Management	version 4, BASIC edition	•	•	•	9053-003
Software	version 4, GLP edition	•	•	•	9053-004
	version 4, PROFESSIONAL edition	•	•	•	9053-004
pH-neutral detergent	concentrated, for gentle remove of residual contaminants; 1 kg	•	•	•	1002-001

Designation	Description	СВ 56	CB 170	CB 260	Art. No.
	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	•	•	•	7057-000
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	•	•	•	8012-070
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
		•	-	-	6004-013
	Stainless steel	-	•	-	6004-013
		-	-	•	6004-019
Shelf, perforated	for divided inner door				
	stainless steel	•	-	-	6004-014
	Chairless shall divided	-	•	-	8012-188
	Stainless steel, divided	-	-	•	8012-199
		•	-	-	9051-003
Stacking adapter	for the thermally isolated stacking of two BINDER $\rm CO_2$ incubators	-	•	-	9051-003
		-	-	•	9051-003
74 L (stable, vibration-free stacking frame on casters with stop brake for safe stacking	_	•	-	9051-004
Stacking frame	of two CB 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	-	•	•	8009-105
	Set consisting of 3 empty, refillable tubular bags including peristaltic tubing, connectors, and fine gas filters				
	for versions with active humidification	_	•	•	8009-108

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

- 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
- 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 volu- me [cu. ft.]	Online data sheets	
CB-S 170	6	› go2binder.com/us-CB-S170	
CB-S 260	9.4	>go2binder.com/us-CB-S260	

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

OPTIONAL EQUIPMENT

Stacking adapter	Stacking adapters support the space-saving installation and safe stacking of BINDER CO_2 incubators.	
CO ₂ 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.	TO BE CONTRACT
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.	
All extras online go2b	inder.com/us-options	

TECHNICAL DATA

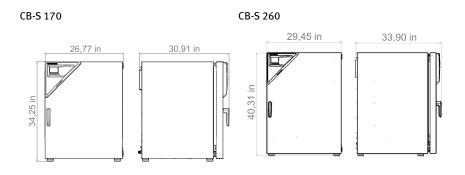
Description	CB-S 170	CB-S 260
Measures		
Interior volume [cu.ft.]	6	9.4
Net weight of the unit (empty) [lbs]	198	276
Permitted load [lbs]	66	88
Load per rack [lbs]	22	22
Wall clearance back [in]	3.94	3.94
Wall clearance sidewise [in]	1.97	1.97
Internal Dimensions		
Width [in]	22.06	24.43
Height [in]	23.64	29.55
Depth [in]	19.9	22.65
Housing dimensions not incl. fittings and connections		
Width net [in]	26.79	29.16
Height net [in]	34.28	40.2
Depth net [in]	28.17	30.93
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	9040-0189	9040-0191
100120 V 1~ 50/60 Hz	Standard	9040-0190	9040-0192

DIMENSIONS INCL. FITTINGS AND CONNECTIONS [MM]



ORDERING INFORMATION OPTIONS

Designation	Description	CB-S 170	CB-S 260	Art. No.
	back			
	30 mm	•	•	8012-1974
Access port with sili-	left			
cone plug	30 mm	•	•	8012-197
	right			
	30 mm	•	•	8012-1976
Analog output 4-20 mA	for temperature and CO_2 values (outputs not adjustable)	•	•	8012-197
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	•	•	8012-113
	temperature measurement incl. certificate and 27 measuring points at specified temperature	•	•	8012-1592
	temperature measurement incl. certificate, 15- 18 measuring points at specified temperature	•	•	8012-1570
	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	•	•	8012-022
		•	-	8012-1953
Door hinged on the left	Unit door and standard glass inner door with door hinged on the left	-	•	8012-1993
Door lock	lockable door handle	•	•	8012-101

ORDERING INFORMATION ACCESSORIES

Designation	Description	CB-S 170	CB-S 260	Art. No.
Pasa	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
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

Designation	Description	CB-S 170	CB-S 260	Art. No.
	Multi Management Software APT-COM™		1	
Multi Management	version 4, BASIC edition	•	•	9053-003
Software	version 4, GLP edition	•	•	9053-004
	version 4, PROFESSIONAL edition	•	•	9053-004
pH-neutral detergent	concentrated, for gentle remove of residual contaminants; 1 kg	•	•	1002-001
	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	•	•	7007-00
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	•	•	7007-00
Rubber pads	set anti-slip feet	•	•	8012-070
Shaker "Universal"	Shaker and controller connected via ribbon cable, universally applicable, 100 – 240 V, 50/60 Hz	•	•	8012-177
Shalf norforated	Stainless steel	•	-	6004-01
Shelf, perforated		-	•	6004-01
Stacking adaptor	for the theory allocated at a big of the DINDED CO. in substance	•	-	9051-003
Stacking adapter for the thermally isolated stacking of t	for the thermally isolated stacking of two BINDER CO_2 incubators	-	•	9051-003
Staaking from a	stable, vibration-free stacking frame on casters with stop brake for safe stacking of two CB	•	-	9051-004
Stacking frame	series units	-	•	9051-004

BINDER products

CO2 incubators
Incubators
Refrigerated incubators
Growth chambers
Ultralow temperature freezers
Drying and heating chambers
Safety drying chambers
Vacuum drying chambers
Humidity test chambers
Dynamic climate chambers
Battery test chambers
Multi Management Software
Never miss a product update - Subscribe and keep up to speed with the BINDER monthly newsletter. Subscription
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Best conditions for your success

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