

Model CB-S 260 | CO2 incubators 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 CO₂ measurements conducted in real time.

BENEFITS

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







Model 260

IMPORTANT FEATURES

- Temperature range: +6°C above ambient temperature to +50°C
- Humidity range: 90 to 95% RH
- CO₂ control range: o 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
- Seamless stainless steel inner chamber
- Perforated shelves, stainless steel
- · Troubleshooting system with visual and acoustic alarms
- · Interfaces: Ethernet, USB, zero-voltage alarm contact
- Units can be stacked with stacking adapters; the CB-S is suitable for stacking with CB and CBF models of the same size

OPTIONAL EQUIPMENT

- Copper interior fittings consisting of copper shelves and copper-plated water CO₂ shaker with corrosion-resistant components in a stainless-steel housing
- Stacking adapter for secure, space-saving installation
- CO₂ gas tank changer for connecting two gas tanks to one or two incubators Services wide range of services to ensure that the unit functions correctly
- APT-COM Multi Management Software for managing, recording, and documenting unit parameters

ORDERING INFORMATION

Interior volume [L]	Power supply - unit fuse	Plug*	Version	Model version	ArtNo.
Model CB-S 260					
2/-	100120 V 1~ 50/60 Hz -16,0 A	NEMA 5-20	Standard	CBS26oUL-12oV	9640-0004
20/	200230 V 1~ 50/60 Hz -10,0 A		Standard	CBS260-230V	9640-0003



TECHNICAL DATA

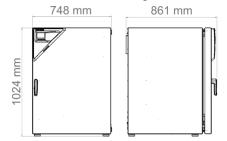
TECHNICAL DATA		
Data		
Designation	CBS260-230V	CBS260UL-120V
Article Number	9640-0003	9640-0004
Option model	Standard	Standard
Performance Data Temperature		
Temperature range	+6 °C above ambient temperature to 50 °C	+6 °C above ambient temperature to 50 °C
Temperature uniformity at 37°C	0.4 ± K	0.4 ± K
Temperature fluctuation at 37°C	0.1 ± K	0.1 ± K
Recovery time after door was opened for 30 s at 37°C	8 min	8 min
Performance Data Climate		
Humidity range	9095 % RH	9095 % RH
Gas Data		
CO ₂ range	o20 Vol% CO ₂	o20 Vol% CO ₂
CO ₂ measuring technology	IR	IR
$\mathrm{CO_2}$ recovery time after door was opened for 30 s at 5 vol. % $\mathrm{CO_2}$	5 min	5 min
Electrical data		
Rated Voltage	200230 V	100120 V
Power frequency	50/60 Hz	50/60 Hz
Nominal power	1,5 kW	1,5 kW
Unit fuse	10,0 A	16,0 A
Phase (Nominal voltage)	1~	1~
Dimensions and weights		
Interior volume	267 L	267 L
Net weight of the unit (empty)	116 kg	116 kg
Load per rack	10 kg	10 kg
Permitted load	40 kg	40 kg
Wall clearance back	100 mm	100 mm
Wall clearance sidewise	50 mm	50 mm
Housing dimensions not incl. fittings and connections		



Width net	740 mm	740 mm
Height net	1,020 mm	1,020 mm
Depth net	785 mm	785 mm
Internal Dimensions		
Interior width	620 mm	620 mm
Interior height	750 mm	750 mm
Interior depth	575 mm	575 mm
Inner doors	1	1
Unit doors	1	1
Environment-specific data		
Sound-pressure level	41 dB(A)	41 dB(A)
Energy consumption at 37°C	55 Wh/h	55 Wh/h
Fixtures		
Number of shelves (std./max.)	2/8	2/8

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

DIMENSIONS Incl. fittings and connections [mm]



OPTIONS

Designation	Description	CB-S 260	*	ArtNo.
Access port with silicone plug	back			
	30 mm	•	01	8612-0017
	left			
	30 mm	•	01	8612-0018
	right			
	30 mm	•	01	8612-0019



Designation	Description	CB-S 260	*	ArtNo.
Analog output 4-20 mA	for temperature and CO ₂ values (outputs not adjustable)	•	02	8612-0016
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, 9 measuring points at specified temperature	•	-	8012-1549
	temperature measurement incl. certificate, 15- 18 measuring points at specified temperature	•	-	8012-1570
	temperature measurement incl. certificate and 27 measuring points at specified temperature	•	-	8012-1591
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 $^{\circ}{\rm C}$ and 5 $\%$ CO $_2$	•	-	8012-0228
Door hinged on the left	Unit door and standard glass inner door with door hinged on the left	•	-	8612-0020
Door lock	lockable door handle	•	-	8612-0021

ACCESSORIES

Designation	Description	CB-S 260	*	ArtNo.
	for simple logging and documentation requirements with up to 5 networked units.			
APT-COM™ 4 BASIC-Edition	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-	convenient unit and user management built on the BASIC edition. Suitable for networking up to 100 units.			
Edition	version 4, PROFESSIONAL edition	•	-	9053-0040
Base	the base equipped with casters is used for the secure positioning and leveling of a $\ensuremath{BINDER}\xspace \ensuremath{CO_2}\xspace$ 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
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 $(CO_2, N_2 \text{ or } O_2)$, with audible and visual alarms, as well as zero-voltage alarm output	•	-	8012-2344
pH-neutral detergent	concentrated, for gentle remove of residual contaminants; 1 kg	•	-	8012-2250
Qualification 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, $\mathrm{CO_2}$, $\mathrm{O_2}$ – or pressure, depending on unit			



Designation	Description	CB-S 260	*	ArtNo.
	Digital in PDF format	•	-	7057-0005
	Hard copy inside folder	•	-	7007-0005
IQ/OQ documents – supporting documents for validation performed by customers, consisting of: IQ/OQ checklists incl. calibration guide and comprehensive unit documentation; parameters: temperature, $\mathrm{CO_2}$, $\mathrm{O_2}$, pressure, depending on unit				
	Digital in PDF format	•	-	7057-0001
	Hard copy inside folder	•	-	7007-0001
Rubber pads	set anti-slip feet	•	-	8012-0702
Shaker "Universal"	Shaker and controller connected via ribbon cable, universally applicable, 100 $-$ 240 V, 50/60 Hz	•	-	8012-1771
Shelf, perforated	Stainless steel	•	-	8012-2183
Stacking adapter	for the thermally isolated stacking of two BINDER CO_2 incubators	•	-	9051-0039
Stacking frame	stable, vibration-free stacking frame on casters with stop brake for safe stacking of two CB series units	•	-	9051-0041
Makananah	Set consisting of 6 bottles, each with 1,000 ml of sterile humidification water			
Nater supply	for versions with active humidification	•	-	8009-1192

SERVICES

Designation	Description	*	ArtNo.		
Calibration services					
	Calibration of one (1) test temperature specified by the user in center of chamber, including certificate		DL30-0140		
Calibration certificate, temperature	Extension of calibration of one (1) additional test temperature specified by the user in the center of the usable space, including certificate	-	DL30-0102		
CO ₂ calibration	CO_2 calibration at a specified value, measurements are taken with analyzed test gas at 5%, including certificate	-	DL30-0401		
Temperature measurement, 9 measuring points	Temperature measurement with 9 measuring points with a set value specified by the user, including certificate	-	DL30-0109		
Temperature measurement, 18 measuring points	Temperature measurement with 18 measuring points with a set value specified by the user, including certificate	-	DL30-0118		
Temperature measurement, 27 measuring points	Temperature measurement with 27 measuring points with a set value specified by the user, including certificate	-	DL30-0127		
Installation services					
Unit commissioning	Connect the unit to the customer-side connections (electricity, water, wastewater, gas), basic functions check, brief operating instructions. (excl.: unpacking, setup, controller instructions, programming, installation work)	-	DL10-0110		
Unit instructions	Instruction regarding operating principle and basic functions of the unit, operation of the control electronics including programming	05	DL10-0510		



Designation	Description	*	ArtNo.
Maintenance contracts			
BRONZE 3-year maintenance contract	Maintenance service as contractually agreed, visual inspection of mechanical and electrical components, check of control response, 20% discount on spare parts	-	DL20-0710
GOLD 3-year maintenance contract	Maintenance service as contractually agreed, visual inspection of mechanical and electrical components, check of control response, 20% discount on spare parts, testing of all key functions, replacement of wear parts, calibration of one test temperature specified by the user in the center of the usable space, including certificate	-	DL20-0975
SILVER 3-year maintenance contract	Maintenance service as contractually agreed, visual inspection of mechanical and electrical components, check of control response, 20% discount on spare parts, testing of all key functions, calibration of one test temperature specified by the user in the center of the usable space, without certificate	-	DL20-0875
Maintenance services			
Maintenance	One-off maintenance service in accordance with maintenance schedule. Visual inspection of mechanical and electrical components, testing of all key functions. Calibration of a test temperature specified by the user in center of usable space without certificate	-	DL20-0608
Validation services			
Execution of IQ/OQ	Execution of IQ/OQ in accordance with qualification folder	-	DL41-0200
Execution of IQ/OQ/PQ	Execution of IQ/OQ/PQ in accordance with qualification folder	-	DL44-0500
Warranty service			
1-year warranty extension	The warranty is extended by 1 year from the delivery date, wear parts are excluded	-	DL50-0020



NOTES

- O1 Condensation may occur in the area around the access port. Access ports may be placed in custom locations for an additional charge.
- 02 UL mark is not granted when this option is used.
- Quoted prices do not include travel costs. Please refer to the chapter on BINDER Service for travel costs for your region. Quoted prices for services performed in Switzerland do not include a country-specific added fee (available on request).

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