



Model CB 56 | CO2 incubators 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.

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 56 Model 56

IMPORTANT FEATURES

- Optimized humidification system with condensation protection
- Tried-and-tested anti-contamination concept with 180 $^{\circ}\text{C}$ 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

OPTIONAL EQUIPMENT

- Multi-sectional glass doors with special shelves for dividing up the space to accommodate different experiments
- Stacking adapter for secure, space-saving installation
- Gas tank changer for connecting two gas tanks to one or two incubators

ORDERING INFORMATION

Interior volume [L]	Power supply - unit fuse	Plug*	Version	Model version	ArtNo.
Model CB 56					
F2	200230 V 1~ 50/60 Hz -10,0 A	CEE 7/7	Standard	CB056-230V	9640-0005
53	100120 V 1~ 50/60 Hz -16,0 A	NEMA 5-20	Standard	CB056UL-120V	9640-0007

TECHNICAL DATA
Designation
Article Number
Option model
Temperature range
Temperature range without illumination cassettes
Temperature range with 100% illumination
Temperature uniformity dependent on set value
Temperature uniformity at -80°C
Temperature uniformity with 100% illumination
Temperature uniformity without illumination cassettes
Temperature uniformity at 37°C
Temperature uniformity at 100°C
Temperature uniformity at 150°C
Temperature fluctuation dependent on set value
Temperature fluctuation at -80°C
Temperature fluctuation at 37°C
Temperature fluctuation with 100% illumination
Temperature fluctuation without illumination cassettes
Temperature fluctuation at 100°C
Temperature fluctuation at 150°C
Heating up time to 100°C
Heating up time to 150°C
Heating up time to 37°C
Average heating-up rate according to IEC 60068-3-5
Cooling down time from 110°C to -40°C
Cooling down time from 180°C to -40°C
Cooling down time from 180°C to -70°C
Cooling down time from 22°C to -80°C



Average cooling down time according to IEC 60068-3-5 Max. heat compensation at 37°C Max. heat compensation at 40°C Max. heat compensation at 40°C with illumination Recovery time after door was opened for 30 s at 150°C Recovery time after door was opened for 30 s at 37°C Temperature range with humidity and without illumination cassettes Temperature range with humidity and 100% illumination Temperature range with humidity Humidity range Humidity range without illumination cassettes Humidity range with 100% illumination Temperature uniformity at 25°C and 60% RH Temperature uniformity at $40\,^{\circ}\text{C}$ and 75% RH Temperature uniformity with illumination at 25°C and 60% RH Temperature uniformity with illumination at $40\,^{\circ}\,\text{C}$ and 75% RH Temperature uniformity with humidity dependent on set value Temperature fluctuation at 25 °C and 60% RH Temperature fluctuation at 40°C and 75% RH Temperature fluctuation with illumination at 25°C and 60% RH Temperature fluctuation with illumination at $40\,^{\circ}\text{C}$ and 75% RH Temperature fluctuation with humidity dependent on set value Humidity fluctuation at 25°C and 60% RH Humidity fluctuation at 40°C and 75% RH Humidity fluctuation with illumination at 25 $^{\circ}\text{C}$ and 60% RH Humidity fluctuation with illumination at $40\,^{\circ}\text{C}$ and 75% RH Humidity fluctuation with humidity dependent on set value Recovery time after door was opened for 30 s at 25 $^{\circ}\text{C}$ and 60% RH Recovery time after door was opened for 30 s at 40 $^{\circ}$ C and 75% RH



Recovery time after door was opened for 30 s with illumination at $25\,^{\circ}\text{C}$ and 60% RH Recovery time after door was opened for 30 s with illumination at $40\,^{\circ}\text{C}$ and 75% RH Max. heat compensation at 25°C and 90% RH CO₂ range CO₂ measuring technology CO_2 recovery time after door was opened for 30 s at 5 vol. % CO_2 Standard O2 control range O_2 control ranges with option: O_2 range O_2 recovery time after door was opened for 30 s at 5 vol. % O_2 ICH compliant illumination for photo stability testing ICH compliant illumination for photo stability testing Daylight tubes Daylight tubes Fluora® growth lamps Arabidopsis lamps Air circulation (approx.) Volumetric flow rate of exhaust air acc. to EN 1539 at 50 $^{\circ}\text{C}$ Air change rate at $100\,^{\circ}\text{C}$ Air change rate at 150°C Permitted end vacuum Leckrate Highest permitted solvent quantity (at T-180°C, M-100g/mol, U-40g/m3, K=0,5) Rated Voltage Power frequency Nominal power Unit fuse Phase (Nominal voltage) Vacuum connection with small flange Measuring access port with small flange



Inert gas connection with flow limiter (RP")
Compressed air connection for pressure-encapsulation
Interior volume
Net weight of the unit (empty)
Load per rack
Permitted load
Wall clearance back
Wall clearance sidewise
Width net
Height net
Depth net
Interior width
Interior height
Interior depth
Viewing window width
Viewing window height
Inner doors
Unit doors
Sound-pressure level
Average heat compensation at set value -80°C and Ta = 21°C
Energy consumption at 25°C and 60% RH
Energy consumption at 100°C
Energy consumption at 150°C
Energy consumption at 20°C
Energy consumption at 37°C
Energy consumption at 37°C and 75% RH
Energy consumption at 37°C and with illumination
Energy consumption at 40°C and 75% RH
Energy consumption at 85°C and 85% RH



Energieverbrauch bei Sollwert -80 °C und Tu = 20 °C

Number of shelves (std./max.)

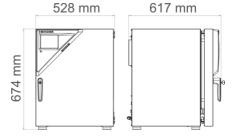
Number of illumination cassettes (std./max.)

Freezer racks per compartment

Cryoboxes, 50 mm

All technical data is specified for unloaded units with standard equipment at an ambient temperature of $\pm 2^{\circ}$ C and a power supply voltage fluctuation of $\pm 10\%$. The temperature data is determined 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 56	*	ArtNo.
Access port with silicone plug	back			
	30 mm	•	01	8612-0025
	left			
	30 mm	•	01	8612-0026
	right			
	30 mm	•	01	8612-0027
Analog output 4-20 mA	for temperature and CO2 values (outputs not adjustable)	•	02	8612-0022
	for temperature, measurement in center of chamber at specified temperature	•	-	8012-1132
Calibration certificate, temperature	temperature measurement incl. certificate, 9 measuring points at specified temperature	•	-	8012-1550
	temperature measurement incl. certificate, 15- 18 measuring points at specified temperature	•	-	8012-1571
	temperature measurement incl. certificate and 27 measuring points at specified temperature	•	-	8012-1592
Calibration certificate, temperature and CO ₂	for temperature and CO2, temperature measurement in center of chamber, CO2 measurement performed using test gas at 37 $^{\circ}\text{C}$ and 5 $\%$ CO2	•	-	8012-1235
Door hinged on the left	Unit door and standard glass inner door with door hinged on the left	•	-	8612-0034



Designation Description CB 56 * ArtNo. APT-COM™ 4 BASIC-Edition version 4, BASIC edition version 4, BASIC edition 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. APT-COM™ 4 PROFESSIONAL-Edition version 4, GLP edition convenient unit and user management built on the BASIC edition. Suitable for networking up to 100 units. Edition version 4, PROFESSIONAL edition the base equipped with casters is used for the secure positioning and leveling of a BINDER CO₂ incubator CB 56	Designation	Description	CB 56	*	ArtNo.
ACCESSORIES Designation Description CB 963 - M1-No. APT-COM** 4 BASIC Edition version 4, 8ASIC edition version 4, 6ASIC edition version 4, 980FESSIONAL edition 4, 980FESSIONAL editi	Electric access port	8-pin, for low voltage with LEMO socket (coverable) and LEMO plug (max. 24 V - 2 A)	•	-	8612-0033
Designation Description Description CB 56 ArtNo.	Inner door, divided		•	-	8612-0029
for simple loging and documentation requirements with up to 5 networked units. werston 4, BASIC Edition APT-COM*4 BASIC 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 convenient unit and user management built on the BASIC edition. Suitable for retworking up to 100 units. Convenient unit and user management built on the BASIC edition. Suitable for retworking up to 100 units. APT-COM*4 PROFESSIONAL Convenient unit and user management built on the BASIC edition. Suitable for retworking up to 100 units. APT-COM*4 PROFESSIONAL Convenient unit and user management built on the BASIC edition. Suitable for retworking up to 100 units. Yerston 4, PROFESSIONAL edition APT-COM*6 PROFESSIONAL Convenient unit and user management built on the BASIC edition. Suitable for retworking up to 100 units. Yerston 4, PROFESSIONAL edition APT-COM*6 PROFESSIONAL Convenient unit and user management built on the BASIC edition. Suitable for retworking up to 100 units. Yerston 4, PROFESSIONAL Convenient unit and user management built on the BASIC edition. Suitable for retworking up to 100 units. Yerston 4, PROFESSIONAL Convenient unit and user management built on the BASIC edition. Suitable for retworking up to 100 units. Yerston 4, PROFESSIONAL Convenient unit and user management built on the BASIC edition. Suitable for retworking up to 100 units. Yerston 4, PROFESSIONAL Convenient unit and user management built on the BASIC edition. Suitable for retworking up to 100 units. Season Convenient unit and user management built on the BASIC edition. Suitable for retworking up to 100 units. Season Convenient unit and user management built on the BASIC edition. Suitable for retworking up to 100 units. Season Convenient unit and user management built on the BASIC edition. Suitable for retworking up to 100 units. Season Convenient unit and user management built on the BASIC edition	ACCESSORIES				
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APT-COM* 4 CLP-Edition version 4, GLP edition version 4, PROFESSIONAL-Edition version 4, PROFESSIONAL-Edition version 4, PROFESSIONAL-Edition version 4, PROFESSIONAL-Edition version 4, PROFESSIONAL edition 4, PROFESSIONAL	APT-COM™ 4 BASIC-Edition	version 4, BASIC edition	•	-	9053-0039
convenient unit and user management built on the BASIC edition. Suitable for networking up to 100 units. Version 4, PROFESSIONAL edition Nersion 4, PROFESSIONAL edition The base equipped with casters is used for the secure positioning and leveling of a BINDER CO2 incubator Gas cylinder connection set for CO2, consisting of a gas tank pressure regulator with connection parts and 5-meter hose The external, BINDER Gas Supply Service, for connecting 2 gas tanks (CO2, No or O2), with audible and visual alarms, as well as zero-voltage alarm output Phi-neutral detergent connected set connected to gentle remove of residual contaminants; 1 kg Topic of the secure of the secure positioning and leveling of a BINDER CO2 incubator. The prince of the secure position of the secure positioning and leveling of a BINDER CO2 incubator. The secure of the secure of the secure positioning and leveling of a BINDER CO2 incubation of the secure position performed by customers and the secure of the	APT-COM™ 4 GLP-Edition				
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Sas tank changer external, BINDER Gas Supply Service, for connecting 2 gas tanks (CO2, N2 or O2), with audible and visual alarms, as well as zero-voltage alarm output PH-neutral detergent concentrated, for gentle remove of residual contaminants; 1 kg	Base		•	-	9051-0043
and visual alarms, as well as zero-voltage alarm output PH-neutral detergent concentrated, for gentle remove of residual contaminants; 1 kg 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 Hard copy inside folder 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 ₃ , pressure, depending on unit Digital in PDF format Digital in PDF format Hard copy inside folder TO07-0001 Rubber pads Stainless steel Stainless steel Or divided inner door	Gas cylinder connection set	for CO2, consisting of a gas tank pressure regulator with connection parts and 5-meter hose	•	-	8012-0014
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	Gas tank changer			-	8012-2344
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	pH-neutral detergent	concentrated, for gentle remove of residual contaminants; 1 kg	•	-	8012-2250
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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 Hard copy inside folder set anti-slip feet Stainless steel for divided inner door 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 • 7057-0001 Rubber pads set anti-slip feet • - 8012-0702 Stainless steel for divided inner door		Digital in PDF format	•	-	7057-0005
IQ/OQ documents - supporting documents for validation performed by customers, consisting of: IQ/OQ checklists incl. calibration guide and comprehensive unit documentation; parameters: temperature, CO ₂ , O ₂ , pressure, depending on unit Digital in PDF format Hard copy inside folder * 7057-0001 Rubber pads set anti-slip feet Stainless steel for divided inner door	.	Hard copy inside folder	•	-	7007-0005
Hard copy inside folder Rubber pads set anti-slip feet Stainless steel for divided inner door Hard copy inside folder • - 7007-0001 • - 8012-0702 Stainless steel • - 8012-2166	Qualification documents	of: IQ/OQ checklists incl. calibration guide and comprehensive unit documentation;			
Rubber pads set anti-slip feet Stainless steel Shelf, perforated Stainless steel For divided inner door		Digital in PDF format	•	-	7057-0001
Stainless steel • - 8012-2166 Shelf, perforated for divided inner door		Hard copy inside folder	•	-	7007-0001
Shelf, perforated for divided inner door	Rubber pads	set anti-slip feet	•	-	8012-0702
		Stainless steel	•	-	8012-2166
stainless steel • 8012-2058	Shelf, perforated	for divided inner door			
		stainless steel	•	-	8012-2058

Description

for the thermally isolated stacking of two BINDER CO_2 incubators

Designation

Stacking adapter



Art.-No.

9051-0038

CB 56

Stacking adapter for the thermatty	isolated stacking of two binder CO2 includators	•	- 9031-0036
SERVICES			
Designation	Description	*	ArtNo.
Calibration services			
	Calibration of one (1) test temperature specified by the user in center of chamber, including certificate	-	DL30-0140
alibration 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
O2 calibration	${\sf CO}_2$ calibration at a specified value, measurements are taken with analyzed test gas at 5%, including certificate	-	DL30-0401
emperature measurement, 9 measuring points	Temperature measurement with 9 measuring points with a set value specified by the user, including certificate	-	DL30-0109
emperature measurement, 18 measuring points	Temperature measurement with 18 measuring points with a set value specified by the user, including certificate	-	DL30-0118
Femperature measurement, 27 measuring points	Temperature measurement with 27 measuring points with a set value specified by the user, including certificate	-	DL30-0127
nstallation services			
Init 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
Jnit instructions	Instruction regarding operating principle and basic functions of the unit, operation of the control electronics including programming	-	DL10-0510
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
alidation 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



Designation	Description	*	ArtNo.
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.

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