

Model CB 170 | CO₂ incubators 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 CO₂ incubator of the CB series is up to even complex cultivation experiments or individual environments.

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



Model CB 170



Model CB 170

MAIN FEATURES

- Temperature range: ambient temperature plus 4 °C to 60 °C
- · Humidity range: 90 to 95% RH
- CO₂ control range: 0 to 20 vol% CO₂
- O2 control range: 0.2 to 20 vol% O2 for versions with O2 control
- Alternative O₂ control range: 10 to 95 vol% O₂, option for versions with O₂ control
- Tried-and-tested anti-contamination concept with 180 °C hot air sterilization
- Hot-air sterilizable CO₂ sensor with single-beam infrared technology
- CO₂ gas-mixing jet with Venturi effect
- · Intuitive touchscreen controller
- Internal data recording, can be read out in open format via USB interface
- Optimized double-pan humidification system with condensation protection

- 170 liters of extra space in the interior while maintaining the same footprint
- Stacking height of just 1.80 m for easy use of the top unit
- Fail-safe CO₂ automatic diagnosis system for protecting the pH of cell cultures
- DuoDoor™ system: Unit door and glass door can be opened with one handle
- · Lockable door handle
- Computer interface: Ethernet
- Zero-voltage alarm contact
- · Tightly sealed inner door made of tempered safety glass
- 2 perforated shelves, stainless steel
- · Units are stackable with stacking adapter



ORDERING INFORMATION

Voltage	Option model	Version	ArtNo.
	Standard	CB170-230V	9040-0131
200240 V 1~ ph 50/60 Hz	with O ₂ control	CB170-230V-O	9040-0132
	With active humidification	CB170-230V-F	9040-0133
	With O ₂ control 0.2–20% and active humidification	CB170-230V-OF	9040-0134
100120 V 1~ ph 50/60 Hz	Standard	CB170UL-120V	9040-0139
	with O ₂ control	CB170UL-120V-O	9040-0140
	With active humidification	CB170UL-120V-F	9040-0141
	With O ₂ control 0.2–20% and active humidification	CB170UL-120V-OF	9040-0142
	200240 V 1~ ph 50/60 Hz		$ \begin{array}{c} Standard & CB170-230V \\ \hline 200240 \ V \ 1^{\sim} \ ph \ 50/60 \\ Hz & with \ O_2 \ control \\ \hline With \ active \ humidification & CB170-230V-F \\ \hline With \ O_2 \ control \ 0.2-20\% \ and \ active \ humidification & CB170-230V-OF \\ \hline Standard & CB170UL-120V \\ \hline 100120 \ V \ 1^{\sim} \ ph \ 50/60 \\ Hz & with \ O_2 \ control & CB170UL-120V-O \\ \hline With \ active \ humidification & CB170UL-120V-F \\ \hline \end{array} $

TECHNICAL DATA (Version 1-4 from 8)

Description	CB170-230V ¹	CB170-230V-O ¹	CB170-230V-F ¹	CB170-230V-OF ¹
Article Number	9040-0131	9040-0132	9040-0133	9040-0134
Performance Data Temperature				
Temperature range 4 °C above ambient temperature to [°C]	60			
Temperature range 6 °C above ambient temperature to [°C]		60	60	60
Temperature variation at 37 °C [± K]	0.3	0.4	0.4	0.4
Temperature fluctuation at 37 °C [± K]	0.1	0.1	0.1	0.1
Recovery time after 30 seconds door open at 37 °C [min]	6	6	6	6
Performance Data Climate				
Humidity range [% RH]	9095	9095	9095	5095
CO ₂ -Data				
CO ₂ range [Vol% CO ₂]	020	020	020	020
CO ₂ measurement	IR	IR	IR	IR
CO ₂ Recovery time after 30 seconds door open at 5 Vol% CO ₂ [min]	5	5	5	5
O ₂ -Data				
Standard O ₂ control ranges: O ₂ range Vol% O ₂]		0.220		0.220
O ₂ control ranges with option: O ₂ range [Vol% O ₂]		1095		1095
O ₂ Recovery time after 30 seconds door open at 5 Vol% O ₂ [min]		10		12
Electrical data				
Rated Voltage [V]	200240	200240	200240	200240
Power frequency [Hz]	50/60	50/60	50/60	50/60
Nominal power [kW]	1.4	1.4	1.4	1.4
Unit fuse [A]	10	10	10	10
Phase (Nominal voltage)	1~	1~	1~	1~

¹ 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 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.



Description	CB170-230V ¹	CB170-230V-O ¹	CB170-230V-F ¹	CB170-230V-OF ¹
Article Number	9040-0131	9040-0132	9040-0133	9040-0134
Outer dimensions				
Width net [mm]	680	680	680	680
Height net [mm]	870	870	870	870
Depth net [mm]	715	715	715	715
Wall clearance back [mm]	100	100	100	100
Wall clearance sidewise [mm]	50	50	50	50
Doors				
Inner doors	1	1	1	1
Unit doors	1	1	1	1
Internal Dimensions				
Width [mm]	560	560	560	560
Height [mm]	600	600	600	600
Depth [mm]	505	505	505	505
Measures				
Interior volume [L]	170	170	170	170
Net weight of the unit (empty) [kg]	95	95	95	95
permitted load [kg]	30	30	30	30
Load per rack [kg]	10	10	10	10
Environment-specific data				
Energy consumption at 37 °C [Wh/h]	55	55	55	55
Sound-pressure level [dB(A)]	41	41	41	41
Fixtures				
Number of shelves (std./max.)	3/6	3/6	3/6	3/6

¹ 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 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.

TECHNICAL DATA (Version 5-8 from 8)

Description	CB170UL-120V ¹	CB170UL-120V-O ¹	CB170UL-120V-F ¹	CB170UL-120V-OF ¹
Article Number	9040-0139	9040-0140	9040-0141	9040-0142
Performance Data Temperature				
Temperature range 4 °C above ambient temperature to [°C]	60			
Temperature range 6 °C above ambient temperature to [°C]		60	60	60
Temperature variation at 37 °C [± K]	0.3	0.4	0.4	0.4
Temperature fluctuation at 37 °C [± K]	0.1	0.1	0.1	0.1
Recovery time after 30 seconds door open at 37 °C [min]	6	6	6	6
Performance Data Climate				
Humidity range [% RH]	9095	9095	5095	5095
CO ₂ -Data				
CO ₂ range [Vol% CO ₂]	020	020	020	020
CO ₂ measurement	IR	IR	IR	IR
CO ₂ Recovery time after 30 seconds door open at 5 Vol% CO ₂ [min]	5	5	5	5

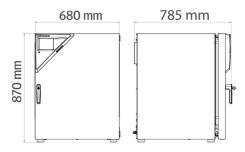
¹ All technical data is specified for unloaded units with standard equipment at an ambient temperature of +22 °C ±3 °C and a power supply voltage fluctuation of ±10%. The temperature data is determined to BINDER factory standard following DIN 12880, observing the recommended wall clearances of 10 % of 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.



Cy-Data Standard O, control ranges: O₂ range (Vol% O₂) 0.220 0.220 O₂ control ranges with option: O₂ range (Vol% O₂) 1095 1095 Cy Control ranges with option: O₂ range (Vol% O₂) 1095 1095 Cy Control ranges with option: O₂ range (Vol% O₂) 10	Description	CB170UL-120V ¹	CB170UL-120V-O ¹	CB170UL-120V-F ¹	CB170UL-120V-OF ¹
Standard O ₂ control ranges: O ₃ range Vol% O ₃	Article Number	9040-0139	9040-0140	9040-0141	9040-0142
Vos* V	O ₂ -Data				
10.95 10.			0.220		0.220
Part			1095		1095
Rated Voltage [V] 100120 100120 100120 50/60 50 60			10		12
Power frequency [Hz] 50/60 50/60 50/60 50/60 Nominal power [kW] 1.4 1.5	Electrical data				
Nominal power [kW] 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4	Rated Voltage [V]	100120	100120	100120	100120
Unit fuse [A] 16 16 16 16 Phase (Nominal voltage) 1- 1- 1- 1- Outer dimensions Width net [mm] 680 680 680 680 Height net [mm] 870 870 870 870 Depth net [mm] 715 715 715 715 Wall clearance back [mm] 100 100 100 100 Wall clearance sidewise [mm] 50 50 50 50 Doors Ioner doors 1 1 1 1 1 Unit doors 1 1 1 1 1 Internal Dimensions 560 560 560 560 Width [mm] 600 600 600 600 Depth [mm] 505 505 505 505 Measures Interior volume [L] 170 170 170 170 Net weight of the unit (empty) [kg] 95 95 95 95 permitted load [kg] 30 30 30 30 30 Load per rack [kg] 10 10 10 10 10 Energy consumption at 37 °C [Wh/h] 55	Power frequency [Hz]	50/60	50/60	50/60	50/60
Phase (Nominal voltage) 1~ 1~ 1~ 1~ Outer dimensions Width net [mm] 680 680 680 680 Height net [mm] 870 870 870 870 Depth net [mm] 715 715 715 715 Wall clearance back [mm] 100 100 100 100 Wall clearance sidewise [mm] 50 50 50 50 Doors Inner doors 1 1 1 1 1 Unit doors 1 1 1 1 1 1 Unit doors 1 1 1 1 1 Interior Dimensions Width [mm] 560 560 560 560 Height [mm] 600 600 600 600 600 Depth [mm] 505 505 505 505 505 Measures 1 170 170 170 170 170 170 170 170 <td>Nominal power [kW]</td> <td>1.4</td> <td>1.4</td> <td>1.4</td> <td>1.4</td>	Nominal power [kW]	1.4	1.4	1.4	1.4
Outer dimensions Width net [mm] 680 680 680 680 Height net [mm] 870 870 870 870 Depth net [mm] 715 715 715 715 Wall clearance back [mm] 100 100 100 100 Wall clearance sidewise [mm] 50 50 50 50 Doors 50 50 50 50 Inner doors 1 1 1 1 1 Unit doors 1	Unit fuse [A]	16	16	16	16
Width net [mm] 680 680 680 680 Height net [mm] 870 870 870 Depth net [mm] 715 715 715 715 Wall clearance back [mm] 100 100 100 Wall clearance sidewise [mm] 50 50 50 50 Doors United doors 1 1 1 1 Unit doors 1 1 1 1 1 Internal Dimensions Width [mm] 560 560 560 560 Height [mm] 600 600 600 600 600 Depth [mm] 505 505 505 505 Measures Interior volume [L] 170 170 170 170 Net weight of the unit (empty) [kg] 95 95 95 95 permitted load [kg] 30 30 30 30 Load per rack [kg] 10 10 10 10 Energy consumption at 37 °C [Wh/h] 55 55 55 55 Sound-press	Phase (Nominal voltage)	1~	1~	1~	1~
Height net [mm] 870 870 870 870 870 Depth net [mm] 715 715 715 715 715 715 Wall clearance back [mm] 100 100 100 100 100 Wall clearance sidewise [mm] 50 50 50 50 Doors Inner doors 1 1 1 1 1 1 1 1 Internal Dimensions Width [mm] 560 560 560 560 Height [mm] 600 600 600 600 Depth [mm] 505 505 505 505 Measures Interior volume [L] 170 170 170 170 170 Net weight of the unit (empty) [kg] 95 95 95 permitted load [kg] 30 30 30 30 Load per rack [kg] 10 10 10 10 Environment-specific data Energy consumption at 37 °C [Wh/h] 55 55 55 Sound-pressure level [dB(A)] 41 41 41 41 41 Fixtures	Outer dimensions				
Depth net [mm] 715 715 715 715 Wall clearance back [mm] 100 100 100 Wall clearance sidewise [mm] 50 50 50 Doors Inner doors 1 1 1 1 Unit doors 1 1 1 1 Internal Dimensions Width [mm] 560 560 560 560 Height [mm] 600 600 600 600 Depth [mm] 505 505 505 505 Measures Interior volume [L] 170 170 170 170 Net weight of the unit (empty) [kg] 95 95 95 95 permitted load [kg] 30 30 30 30 Load per rack [kg] 10 10 10 10 Energy consumption at 37 °C [Wh/h] 55 55 55 55 Sound-pressure level [dB(A)] 41 41 41 41	Width net [mm]	680	680	680	680
Wall clearance back [mm] 100 100 100 100 Wall clearance sidewise [mm] 50 50 50 Doors Unner doors 1 1 1 1 Unit doors 1 1 1 1 Unit doors 5 1 1 1 1 Internal Dimensions Width [mm] 560 560 560 560 560 Height [mm] 600 600 600 600 600 Depth [mm] 505 505 505 505 Measures Interior volume [L] 170 170 170 170 Net weight of the unit (empty) [kg] 95 95 95 95 permitted load [kg] 30 30 30 30 Load per rack [kg] 10 10 10 10 Environment-specific data Energy consumption at 37 °C [Wh/h] 55 55 55 55 55 Sound-pressure le	Height net [mm]	870	870	870	870
Wall clearance sidewise [mm] 50 50 50 Doors Inner doors 1 1 1 1 Unit doors 1 1 1 1 1 Internal Dimensions Width [mm] 560 560 560 560 Height [mm] 600 600 600 600 600 Depth [mm] 505 505 505 505 Measures Interior volume [L] 170 170 170 170 Net weight of the unit (empty) [kg] 95 95 95 95 permitted load [kg] 30 30 30 30 Load per rack [kg] 10 10 10 10 Environment-specific data Energy consumption at 37 °C [Wh/h] 55 55 55 55 Sound-pressure level [dB(A)] 41 41 41 41	Depth net [mm]	715	715	715	715
Doors Door	Wall clearance back [mm]	100	100	100	100
Inner doors 1 1 1 1 Unit doors 1 1 1 1 Internal Dimensions Width [mm] 560 560 560 560 Weight [mm] 600 600 600 600 600 Depth [mm] 505 505 505 505 505 Measures Interior volume [L] 170 <t< td=""><td>Wall clearance sidewise [mm]</td><td>50</td><td>50</td><td>50</td><td>50</td></t<>	Wall clearance sidewise [mm]	50	50	50	50
Unit doors 1 1 1 1 Internal Dimensions Width [mm] 560 560 560 560 Height [mm] 600 600 600 600 Depth [mm] 505 505 505 505 Measures Interior volume [L] 170 170 170 170 Net weight of the unit (empty) [kg] 95 95 95 95 permitted load [kg] 30 30 30 30 Load per rack [kg] 10 10 10 10 Energy consumption at 37 °C [Wh/h] 55 55 55 55 Sound-pressure level [dB(A)] 41 41 41 41	Doors				
Note that the series of the unit (empty) [kg] 10 10 10 10 10 10 10 1	Inner doors	1	1	1	1
Width [mm] 560 560 560 560 Height [mm] 600 600 600 600 Depth [mm] 505 505 505 505 Measures Interior volume [L] 170 170 170 170 Net weight of the unit (empty) [kg] 95 95 95 95 permitted load [kg] 30 30 30 30 Load per rack [kg] 10 10 10 10 Energy consumption at 37 °C [Wh/h] 55 55 55 55 Sound-pressure level [dB(A)] 41 41 41 41	Unit doors	1	1	1	1
Height [mm] 600 600 600 600 600 Depth [mm] 505 505 505 505 Measures Interior volume [L] 170 170 170 170 170 170 Net weight of the unit (empty) [kg] 95 95 95 permitted load [kg] 30 30 30 30 30 Load per rack [kg] 10 10 10 10 10 Environment-specific data Energy consumption at 37 °C [Wh/h] 55 55 55 Sound-pressure level [dB(A)] 41 41 41 41 41 Fixtures	Internal Dimensions				
Depth [mm] 505 505 505 505 505 505 505 505 505 50	Width [mm]	560	560	560	560
Measures Interior volume [L] 170 170 170 170 Net weight of the unit (empty) [kg] 95 95 95 permitted load [kg] 30 30 30 30 Load per rack [kg] 10 10 10 10 Environment-specific data Energy consumption at 37 °C [Wh/h] 55 55 55 Sound-pressure level [dB(A)] 41 41 41 41	Height [mm]	600	600	600	600
Interior volume [L] 170 170 170 170 Net weight of the unit (empty) [kg] 95 95 95 permitted load [kg] 30 30 30 30 Load per rack [kg] 10 10 10 10 Environment-specific data Energy consumption at 37 °C [Wh/h] 55 55 55 Sound-pressure level [dB(A)] 41 41 41 41	Depth [mm]	505	505	505	505
Net weight of the unit (empty) [kg] 95 95 95 95 95 95 95 95 95 95 95 95 95	Measures				
permitted load [kg] 30 30 30 30 Load per rack [kg] 10 10 10 10 Environment-specific data Energy consumption at 37 °C [Wh/h] 55 55 55 Sound-pressure level [dB(A)] 41 41 41 41 Fixtures	Interior volume [L]	170	170	170	170
Load per rack [kg] 10 10 10 10 Environment-specific data Energy consumption at 37 °C [Wh/h] 55 55 55 55 Sound-pressure level [dB(A)] 41 41 41 41 Fixtures	Net weight of the unit (empty) [kg]	95	95	95	95
Environment-specific data Energy consumption at 37 °C [Wh/h] 55 55 55 55 Sound-pressure level [dB(A)] 41 41 41 41 Fixtures 41 <td< td=""><td>permitted load [kg]</td><td>30</td><td>30</td><td>30</td><td>30</td></td<>	permitted load [kg]	30	30	30	30
Environment-specific data Energy consumption at 37 °C [Wh/h] 55 55 55 55 Sound-pressure level [dB(A)] 41 41 41 41 Fixtures 41 <td< td=""><td>Load per rack [kg]</td><td>10</td><td>10</td><td>10</td><td>10</td></td<>	Load per rack [kg]	10	10	10	10
Sound-pressure level [dB(A)] 41 41 41 41 Fixtures 41					
Sound-pressure level [dB(A)] 41 41 41 41 Fixtures 41	Energy consumption at 37 °C [Wh/h]	55	55	55	55
		41	41	41	41
Number of shelves (std./max.) 3/6 3/6 3/6 3/6	Fixtures				
	Number of shelves (std./max.)	3/6	3/6	3/6	3/6

¹ 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 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 AND ACCESSORIES

Designation	Description	*	ArtNo.
	back		
Access port with silicone	30 mm	01	8012-1390
	left		
plug	30 mm	01	8012-139
	right		
	30 mm	01	8012-1392
A A A	for temperature and CO ₂ values (outputs not adjustable)	02	8012-1839
Analog output 4-20 mA	for temperature and CO ₂ values (outputs not adjustable), for versions with O ₂ control	02	8012-1840
APT-COM™ 4 BASIC-	for simple logging and documentation requirements with up to 5 networked units.		
Edition	version 4, BASIC edition	19	9053-0039
ADT COMIM 4 CLD	for working under GLP-compliant conditions. Measured values are documented in a tamper-proof way in line with		
APT-COM™ 4 GLP- Edition	the requirements of FDA Regulation 21 CFR 11.		
	version 4, GLP edition	19	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	19	9053-004
Base	with casters, height-adjustable, with unit feet retainer	-	9051-002
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
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
Calibration certificate,	temperature measurement incl. certificate and 27 measuring points at specified temperature	-	8012-159
emperature	temperature measurement incl. certificate, 15- 18 measuring points at specified temperature	-	8012-157
	temperature measurement incl. certificate, 9 measuring points at specified temperature	-	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
CELLROLL set	modular, expandable roller bottle system for cell cultivation, 4 roller bottles	_	8012-188
Door hinged on the left	Unit door and standard glass inner door with door hinged on the left	-	8012-188
Electric access port	8-pin, for low voltage with LEMO socket (coverable) and LEMO plug (max. 24 V – 2 A)	-	8012-184
	for CO ₂ , consisting of a gas tank pressure regulator with connection parts and 5-meter hose	_	8012-001
Gas cylinder connection	for N ₂ , consisting of a gas tank pressure regulator with connection parts and 5-meter hose	_	8012-001
set	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
	Internal door divided into 6 parts		
	door hinged on the left (incl. option door hinged on the left), 120 V option model	_	8012-188
nner door, divided	door hinged on the left (incl. option door hinged on the left), 230 V option model	_	8012-188
	door hinged on the right	_	8012-184
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	-	9418-020
pH-neutral detergent	concentrated, for gentle remove of residual contaminants; 1 kg	_	1002-001
Qualification folder IQ/	supporting documents for validation performed by customer, consisting of: IQ/OQ checklists, unit schematics, QM	15, 18,	
OQ Qualification folder IQ/	certificate in accordance with ISO 9001 supporting documents for validation performed by customer, in accordance with customer's requirement, extension	20	8012-087
DQ/PQ	of Qualification folder IQ/OQ by chapter PQ	15, 18	8012-096
Quick sample access	vewing window (13 x 25 cm) in the inner door for quick access		Q040 400
	door hinged on the left (incl. option door hinged on the left), 120 V option model	-	8012-189
	door hinged on the left (incl. option door hinged on the left), 230 V option model	-	8012-188
	door hinged on the right		8012-188
RS 422 interface	modular plug distributor for 10 RS 422 interfaces	-	8012-029
RS 422 interface, cable	RS 422 connection cable (15 m) between plug distributor and RS 422 interface	_	5023-003

^{*} Notes > See last page



Designation	Description	*	ArtNo.
RS 422 interface, cable (50 m)	RS 422 extension cable (50 m) between interface converter and unit or RS 232 / RS 422 plug distributor	-	5023-0117
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
	Stainless steel	-	6004-0137
Shelf, perforated	for divided inner door		
	Stainless steel, divided	-	8012-1888
Stacking adapter, flat	for thermally decoupled stacking of two identical units	-	9051-0035
Stacking frame	stable, vibration-free stacking frame on casters with stop brake for safe stacking of two CB series units	-	9051-0020

^{*} Notes > See last page

SERVICES

Designation	Description	*	ArtNo.
Installation services			
Installation	and set up of unit at operating location, connect to existing connections	13, 18	DL10-0100
Instruction	unit function instructions for operation and programming of the controller	18	DL10-0500
Preventive maintenance			
Preventive maintenance	Executive of equipment inspection according to maintenance plan	14, 18	DL20-0400
Calibration services			
Calibration CO ₂	including certificate, CO ₂ measurement with analyzed test gas at 5 % or at specified value	14, 16, 17, 18	DL30-0401
Calibration O ₂	calibration of O ₂ , including certificate (one measuring point in center of chamber at specified O ₂ percentage)	14, 16, 17, 18	DL30-0402
Calibration temperature incl. certificate	including certificate, one measuring point in center of chamber at specified temperature	14, 16, 17, 18	DL30-0101
Temperature measurement 18 measuring points	including certificate, 18 measuring points at specified temperature	14, 16, 17, 18	DL30-0118
Temperature measurement 27 measuring points	including certificate, 27 measuring points at specified temperature	14, 16, 17, 18	DL30-0127
Temperature measurement 9 measuring points	including certificate, 9 measuring points at specified temperature	14, 16, 17, 18	DL30-0109
Validation services			
Execution of IQ/OQ	in accordance with qualification folder	15, 18, 20	DL41-0200
Execution of IQ/OQ/PQ	in accordance with customer's requirement, price: on request	15, 18	DL44-0500
Qualification folder IQ/OQ	supporting documents for validation performed by customer, consisting of: IQ/OQ checklists, unit schematics, QM certificate in accordance with ISO 9001	15, 18, 20	8012-0876
Qualification folder IQ/OQ/PQ	supporting documents for validation performed by customer, in accordance with customer's requirement, extension of Qualification folder IQ/OQ by chapter PQ	15, 18	8012-0963
Warranty service			
Extension of the warranty from 2 to 3 years	beginning with the date of delivery, wearing parts are not included	-	DL02-1041
Extension of the warranty from 2 to 5 years	beginning with the date of delivery, wearing parts are not included	-	DL02-1042

^{*} Notes > See last page



NOTES

- 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.
- Heat resistant only to max. 200 °C. 03
- Only available on units rated for 230 V.
- Heating-up time may increase as a result of the lower heat conductivity.
- The additional heat input may affect the temperature behavior.
- Not in conjunction with the optional access port, door with window and interior lighting.
- Not available on 23-liter units.
- Not available on 23- or 53-liter units
- 10 11 12 Only available on units rated for 230 V or 400 V.
- Installation and connections take place at unit location; transport within the company only upon consultation.
- We recommend a BINDER service contract to cover unit inspections, calibrations and validations.
- OQ according to Yellow Paper = completed factory validation documentation of all OQ checklists.
- Sensor calibration is performed in an accredited calibration laboratory.
- 17
- Calibration is performed according to the BINDER factory standard.

 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 18 include a country-specific added fee (available on request).
- For additional accessories, refer to the Process documentation chapter.
- When ordering IQ/OQ qualification folders and associated IQ/OQ execution on one order, we offer a 15 % discount for the item of the IQ/OQ folder.

When ordering IQ/OQ/PQ qualification folders and associated IQ/OQ/PQ execution on one order, we offer a 15 % discount for the item of the IQ/OQ/PQ folder.

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