

Model C 170 | CO₂ incubators with hot air sterilization

Series C 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.

BENEFITS

- Minimum risk of contamination thanks to 180 °C hot-air sterilization
- Stable pH values thanks to drift-free CO₂ IR sensor technology
- High humidity up to 95% RH
- Simple and fast cleaning thanks to a seamlessly deep-drawn inner chamber



Model 170



Model 170

MAIN FEATURES

- Temperature range: room temperature plus 7 °C to 50 °C
- Humidity range: up to 95 % RH
- Auto-sterilization with hot air at 180 °C
- Humidification system with condensation protection
- CO₂ gas-mixing jet with Venturi effect
- CO₂ sensor with infrared technology
- Display with 3-digit, 7-segment LEDs
- Door hinged right or left
- Tightly-sealed inner door made of tempered safety glass
- Seamless, deep-drawn inner stainless steel chamber
- 3 perforated stainless steel shelves
- Units are stackable with stacking adapter
- Troubleshooting system with visual and audible alarms
- Zero-voltage alarm contact

ORDERING INFORMATION

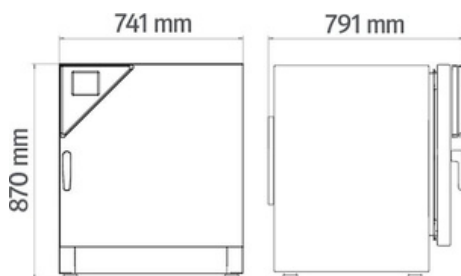
Interior volume [L]	Voltage	Option model	Version	Art.-No.
Model C 170				
168	230 V 1~ ph 50/60 Hz	Door hinged right	C170-230V-R	9040-0112
		Door hinged left	C170-230V-L	9040-0115
	120 V 1~ ph 60 Hz	Door hinged right	C170UL-120V-R	9040-0113
		Door hinged left	C170UL-120V-L	9040-0116

TECHNICAL DATA

Description	C170-230V-	C170-230V-	C170UL-120V-	C170UL-120V-
Article Number	R1 9040-0112	L1 9040-0115	R1 9040-0113	L1 9040-0116
Performance Data Temperature				
Temperature range 7 °C above ambient temperature to [°C]50		50	50	50
Temperature variation at 37 °C [± K]0.3		0.3	0.3	0.3
Temperature fluctuation [± 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]90...95		90...95	90...95	90...95
CO2-Data				
CO2 range [Vol.-% CO2]0...20		0...20	0...20	0...20
CO2 measurementIR		IR	IR	IR
CO2 Recovery time after 30 seconds door open at 5 Vol.-% CO [min]72		7	7	7
Electrical data				
Rated Voltage [V]230				
Power frequency [Hz]50/60		230	120	120
Nominal power [kW]1.1		50/60	60	60
Unit fuse [A]10		1.1	0	0
Phase (Nominal voltage)1~		10	10	10
Internal Dimensions		1~	1~	1~
Depth [mm]500				
Height [mm]600		500	500	500
Width [mm]560		600	600	600
Housing dimensions not incl. fittings and connections		560	560	560
Width net [mm]740				
Height net [mm]870		740	740	740
Depth net [mm]715		870	870	870
Measures		715	715	715
Wall clearance back [mm]100				
Wall clearance sidewise [mm]50		100	100	100
Interior volume [L]168		50	50	50
Net weight of the unit (empty) [kg]96		168	168	168
Load per rack [kg]10		96	96	96
Doors		10	10	10
Inner doors1				
Unit doors1		1	1	1
Environment-specific data				
Energy consumption at 37 °C [Wh/h]90		1	1	1
Fixtures				
Number of shelves (std./max.)3/8		90	90	90
		3/8	3/8	3/8

1All 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 AND ACCESSORIES

Designation	Description	*	Art.-No.
Access port with silicone plug	back 30 mm	01	8012-0558
	left 30 mm	01	8012-0559
	right 30 mm	01	8012-0560
Analog output 4-20 mA	for temperature and CO ₂ values (outputs not adjustable)	02	8012-0742
APT-COM™ 4 BASIC-Edition	for simple logging and documentation requirements with up to 5 networked units. version 4, BASIC edition	19	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	19	9053-0042
APT-COM™ 4 PROFESSIONAL-Edition	convenient unit and user management built on the BASIC edition. Suitable for networking up to 100 units. version 4, PROFESSIONAL edition	19	9053-0040
Base	with casters, height-adjustable, with unit feet retainer	-	9051-0029
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
	temperature measurement incl. certificate and 27 measuring points at specified temperature	-	8012-1591
Calibration certificate, temperature	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	-	8012-0228
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 Set consisting of 3 shelves (all-copper) and a water pan (copper-plated), more information.	-	8012-0503
Copper interior fittings	lockable door handle	-	8012-1765
Door lock	for Multi Management Software APT-COM™	-	8012-1014
Ethernet interface	for CO ₂ , consisting of a gas tank pressure regulator with connection parts and 5-meter hose	-	8012-0604
Gas cylinder connection set	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	-	8012-0014
Gas tank changer	concentrated, for gentle remove of residual contaminants; 1 kg	-	8012-0408
pH-neutral detergent	set anti-slip feet	-	1002-0016
Rubber pads	Stainless steel	-	8012-0702
Shelf, perforated	for thermally decoupled stacking of two identical units	-	6004-0142
Stacking adapter, flat		-	9051-0036

* Notes › See last page

SERVICES

Designation	Description	*	Art.-No.
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	18	DL10-0500
Preventive maintenance			
Preventive maintenance	controller		
Preventive maintenance	Executive of equipment inspection according to maintenance plan	14, 18	DL20-0400
Calibration services			
Calibration CO2	including certificate, CO2 measurement with analyzed test gas at 5 % or at specified value	14, 16, 17, 18	DL30-0401
Calibration temperature incl. certificate	including certificate, one measuring point in center of chamber at specified temperature	14,	DL30-0101
Temperature measurement 18 measuring points	including certificate, 18 measuring points at specified temperature	16, 17, 18	DL30-0118
Temperature measurement 27 measuring points	including certificate, 27 measuring points at specified temperature	14,	DL30-0127
Temperature measurement 9 measuring points	including certificate, 9 measuring points at specified temperature	16, 17, 18	DL30-0109
Validation services	including certificate, 9 measuring points at specified temperature	14, 16,	DL30-0109
Execution of IQ/OQ			
Execution of IQ/OQ/PQ	in accordance with qualification folder	17, 18 14, 15, 18, 16, 18	DL41-0200
Qualification folder IQ/OQ	in accordance with customer's requirement, price: on request	17, 18 15, 18	DL44-0500
	supporting documents for validation performed by customer, consisting of: IQ/OQ checklists, unit schematics, QM certificate in accordance with ISO 9001	15, 18,	8012-0875
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	20 15, 18	8012-0962
Warranty service			
Extension of the warranty from 2 to 3 years	beginning with the date of delivery, wearing parts are not included	-	DL02-0041
Extension of the warranty from 2 to 5 years	beginning with the date of delivery, wearing parts are not included	-	DL02-0042

* Notes › See last page



Want to know more?

If you have questions about this item, please give us a call on 01257 270 433.

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