▶BINDER

Model C 170 | CO$_2$ 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 CO$_2$ measurement system.

BENEFITS

• Minimum risk of contamination thanks to 180 °C hot-air sterilization
• Stable pH values thanks to drift-free CO$_2$ 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
• CO$_2$ gas-mixing jet with Venturi effect
• CO$_2$ 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
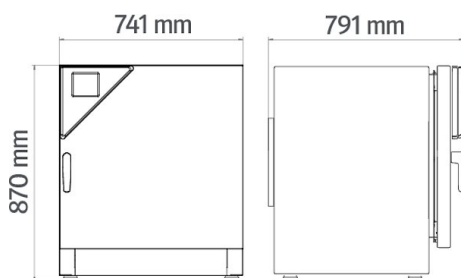• Zero-voltage alarm contact

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

BINDER Data Sheet | As of: 15.07.2019
Technical specifications are subject to change.

› Request more info

Page 1 / 5

BINDER

TECHNICAL DATA

Description	C170-230V-R[1]	C170-230V-L[1]	C170UL-120V-R[1]	C170UL-120V-L[1]
Article Number	9040-0112	9040-0115	9040-0113	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
CO_2-Data				
CO_2 range [Vol.-% CO_2]	0…20	0…20	0…20	0…20
CO_2 measurement	IR	IR	IR	IR
CO_2 Recovery time after 30 seconds door open at 5 Vol.-% CO_2 [min]	7	7	7	7
Electrical data				
Rated Voltage [V]	230	230	120	120
Power frequency [Hz]	50/60	50/60	60	60
Nominal power [kW]	1.1	1.1	0	0
Unit fuse [A]	10	10	10	10
Phase (Nominal voltage)	1~	1~	1~	1~
Internal Dimensions				
Depth [mm]	500	500	500	500
Height [mm]	600	600	600	600
Width [mm]	560	560	560	560
Housing dimensions not incl. fittings and connections				
Width net [mm]	740	740	740	740
Height net [mm]	870	870	870	870
Depth net [mm]	715	715	715	715
Measures				
Wall clearance back [mm]	100	100	100	100
Wall clearance sidewise [mm]	50	50	50	50
Interior volume [L]	168	168	168	168
Net weight of the unit (empty) [kg]	96	96	96	96
Load per rack [kg]	10	10	10	10
Doors				
Inner doors	1	1	1	1
Unit doors	1	1	1	1
Environment-specific data				
Energy consumption at 37 °C [Wh/h]	90	90	90	90
Fixtures				
Number of shelves (std./max.)	3/8	3/8	3/8	3/8

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 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.

BINDER Data Sheet | As of: 15.07.2019
Technical specifications are subject to change.

› Request more info

Page 2 / 5

BINDER

DIMENSIONS incl. fittings and connections [mm]

741 mm   791 mm   870 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
Calibration certificate, temperature	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
	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	–	8012-0503
Copper interior fittings	Set consisting of 3 shelves (all-copper) and a water pan (copper-plated),more information.	–	8012-1765
Door lock	lockable door handle	–	8012-1014
Ethernet interface	for Multi Management Software APT-COM™	–	8012-0604
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
pH-neutral detergent	concentrated, for gentle remove of residual contaminants; 1 kg	–	1002-0016
Rubber pads	set anti-slip feet	–	8012-0702
Shelf, perforated	Stainless steel	–	6004-0142
Stacking adapter, flat	for thermally decoupled stacking of two identical units	–	9051-0036

* Notes › See last page

BINDER Data Sheet | As of: 15.07.2019
Technical specifications are subject to change.

› Request more info

Page 3 / 5

BINDER

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 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 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	8012-0875
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	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

BINDER Data Sheet | As of: 15.07.2019
Technical specifications are subject to change.

› Request more info

Page 4 / 5

WolfLabs

Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct.
If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

www.wolflabs.co.uk

Tel : 01759 301142

Fax : 01759 301143

sales@wolflabs.co.uk

Please contact us if this literature doesn't answer all your questions.