

Model CB 170 | CO_2 incubators with hot air sterilization and heat sterilizable CO_2 sensor

The BINDER CB series CO_2 incubator is the premium class among the CO_2 incubators. It is suitable for all sensitive incubation applications and ensures optimal cell growth. A BINDER CO_2 incubator of the CB series is up to even complex cultivation experiments or individual environments.

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 170

MAIN FEATURES

- Optimized double-pan humidification system with condensation protection
- Tried-and-tested anti-contamination concept with 180 °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

Model 170

OPTIONAL EQUIPMENT

- O_2 control with O_2 control ranges: 0.2 to 20 vol.% O_2 or 10 to 95 vol.% O_2
- 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]	Voltage	Option model	Version	ArtNo.
170		Standard	CB170-230V	9640-0009
	200230 V 1~ ph 50/60 Hz	with Access port 30 mm left	CB170-230V-D	9640-0027
		with O2 control 0.2-20%	CB170-230V-0	9640-0010
	100120 V 1~ ph 50/60 Hz	Standard	CB170UL-120V	9640-0011
		with Access port 30 mm left	CB170UL-120V-D	9640-0028
		with O_2 control 0.2–20%	CB170UL-120V-O	9640-0012





TECHNICAL DATA

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Tampenture angle of SolowsolowsolowsolowInterpreture angle of SolowsolowsolowsolowsolowInterpreture angle of SolowsolowsolowsolowsolowImpenture angle of Solowsolowsolowsolowso	Article Number	9640-0009	9640-0027	9640-0010	9640-0011	9640-0028	9640-0012
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Remperature fluctuation at 37 °C [k] escover fluctuation at 37 °C [k] escover fluctuation at 37 °C [k] escover fluctuation at 37 °C [k] 	Temperature range +6 °C above ambient temperature to			60 °C			60 °C
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open ary c[min]ooooooPerformance DisaVerformance DisaCO, Data002000200020002000200020CO, ConsourcementIR00200020002000200020CO, ConsourcementIR00200020002000200020CO, ConsourcementIR00200020002000200020CO, ConsourcementIR00200020002000200020CO, ConsourcementIR00200020002000200020Consourcement So SourcesIR0020IR0020IR00200020Consourcement So SourcesIR0020IRIR0020IRIRIRConsourcement SourcesIR<	Temperature fluctuation at 37 °C [± K]	0.1	0.1	0.1	0.1	0.1	0.1
hundidiyange90.9590.9590.9790.9790.9790.97CO-Data	Recovery time after 30 seconds door open at 37 °C [min]	6	6	6	6	6	6
CO, Data 020 <th020< th=""> <th0120< th=""> 0120<td>Performance Data Climate</td><td></td><td></td><td></td><td></td><td></td><td></td></th0120<></th020<>	Performance Data Climate						
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RQ, maxumenentIRIRIRIRIRIRIRIRIRIRIRIRIRIRCQ, Recovery time after 30 seconds 00-usta <td< td=""><td>CO₂-Data</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	CO ₂ -Data						
CO Coconcept time after 30 seconds door open it y Vol% CO, (min)SSS<	CO ₂ range [Vol% CO ₂]	020	020	020	020	020	020
door open at yok% Cô, mini5555o, datao, datasthadrid O, control ranges: 0, rangec.s	CO ₂ measurement	IR	IR	IR	IR	IR	IR
Standard 0, ontrol ranges 0, range	CO2 Recovery time after 30 seconds door open at 5 Vol% CO2 [min]	5	5	5	5	5	5
Not% 0.j0.2200.2200, contof ranges with option: 0, range (Not% 0.j)1095i0950, Recovery time after 30 seconds door open at 5 Vol% 0, [min]10100, Recovery time after 30 seconds door open at 5 Vol% 0, [min]2002302002301001200, Recovery time after 30 seconds door open at 5 Vol% 0, [min]2002302002301001201020023020023020023050/6050/60Nominal power (Rullency [H2]50/6050/6050/6050/60Nominal power (Rullency [H2]50/6050/60141.41.4111010161616Nominal power (Rull)1.41.41.41.41.411/11010161616New (Sth Of the unit (empty) [Kg]585858589898Permitted load [Kg]3030303030303030Nall clearance back [mm]100100100100100100Nall clearance back [mm]565656565656Nall clearance back [mm]505050505050Nall clearance back [mm]505050505050Nall clearance back [mm]565656565650Nall clearance back [mm]505050505050Nall clearance b	O ₂ -Data						
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open at s Vol% O, [min]10Depent at s Vol% O, [min]200230200230200230100120100120Rated Voltage [V]20023050/6050/6050/6050/6050/60Power frequency [Hz]50/6050/6050/6050/6050/6050/60Numinal power [kW]1.41.41.41.41.41.4Unit fuse [A]10101.41.41.41.4Unit fuse [A]101.41.41.41.41.4Unit fuse [A]1.41.41.41.41.41.4Masce1-21.41.41.41.41.4Phase (Nominal voltage)1.41.41.41.41.4Masce1.41.41.41.41.41.4Phase (Nominal voltage)1.41.41.41.41.4Phase (Nominal voltage)1.41.41.41.41.4Masce1.71.71.71.71.71.7Phase (Nominal voltage)1.71.71.71.71.7Net weight of the unit (empty) [kg]9.89.89.89.89.89.89.89.81.6Net weight of the unit (empty) [kg]9.69.69.01.0	O_{2} control ranges with option: O_{2} range [Vol% $O_{2}]$			1095			1095
Rated Voltage [V]200230200230200230100120100120Power frequency [H2]50/6050/6050/6050/6050/6050/60Nominal power [kW]1.41.41.41.41.41.41.4Unit fuse [A]101010161616Phase (Nominal voltage)1~1~1~1~1~17 <td>O_2 Recovery time after 30 seconds door open at 5 Vol% O_2 [min]</td> <td></td> <td></td> <td>10</td> <td></td> <td></td> <td>10</td>	O_2 Recovery time after 30 seconds door open at 5 Vol% O_2 [min]			10			10
Power frequency [k1]\$0/60\$0/60\$0/60\$0/60\$0/60\$0/60Nominal power [kW]1.41.41.41.41.41.41.4Unit fuse [A]1010161616Phase (Nominal voltage)1~1~1~1~1~Measures1~1~1~1~1~Interior volume [L]170170170170170Net weight of the unit (empty) [kg]9898989898Permitted load [kg]303030303030Load per rack [kg]100100100100100100Wall clearance back [mm]560560560560560Mattel clearance sidewise [mm]560560560560560Depth [mm]660600600600600600Depth [mm]650565555555505505Doors111111Unit doors111111Housing dimensions not incl. fittings ar/ornettoms680680680680680680680Width het [mm]680680680680680680680680680680	Electrical data						
Nominal power [kW]1.41.41.41.41.41.4Unit fuse [A]1010101616Phase (Nominal voltage)1~1~1~1~1~Measures170170170170170170Netweight of the unit (empty) [kg]989898989898Permitted load [kg]30303030303030Load per rack [kg]10101010101010Wall clearance back [mm]50505050505050With [mm]560560560560560560560Dept [mm]5050505505505505505Doors1111111Height femf111111Housing dimensions not incl. fittings arrow11111With here [mm]680680680680680680680Metter [mm]680680680680680680680680	Rated Voltage [V]	200230	200230	200230	100120	100120	100120
Unit fuse [A]ioioioioieiePhase (Nominal voltage)i~i~i~i~i~Phase (Nominal voltage)i~i~i~i~i~Measuresinterior volume [L]i70i70i70i70i70Net weight of the unit (empty) [kg]989898989898Permitted load [kg]i0i0i0i0i0i0i0Load per rack [kg]i0i0i0i0i0i0i0Wall clearance back [mm]i00i00i00i00i00i00i00Wall clearance sidewise [mm]560560560560560560Mult [mm]560560505505505505505Dopt [mm]505505505505505505505Dopt [mm]i1i1i1i1i1i1Inter doorsi1i1i1i1i1i1Huit doorsi1i1i1i1i1i1Huit doorsi1i2i2i2i2i2With the [mm]680680680680680680680Huit doorsi1i1i1i1i1<	Power frequency [Hz]	50/60	50/60	50/60	50/60	50/60	50/60
Phase (Nominal voltage)1~1~1~1~Measures170170170170170170Measures170170170170170170Net weight of the unit (empty) [kg]989898989898Permitted load [kg]30303030303030Load per ack [kg]10101010101010Wall clearance back [mm]50505050505050Wall clearance sidewise [mm]560560560560560560560With [mm]560560560560560560560Depth [mm]5055055055055555Dors111111Unit doors111111Housing dimensions out incl. fittings arcterious1111With ner [mm]680680680680680680680Housing dimensions not incl. fittings arcterious11111With ner [mm]680680680680680680680680	Nominal power [kW]	1.4	1.4	1.4	1.4	1.4	1.4
Measures 170 170 170 170 170 170 170 Net weight of the unit (empty) [kg] 98 100 100	Unit fuse [A]	10	10	10	16	16	16
Interior volume [L]170170170170170170170Net weight of the unit (empty) [kg]98989898989898Permitted load [kg]30303030303030Load per rack [kg]10101010101010Wall clearance back [mm]100100100100100100100Wall clearance sidewise [mm]50505050505050Internal Dimensions56056056056056056050Width [mm]560505505505505505505Doots11011111Housing dimensions not incl. fittings	Phase (Nominal voltage)	1~	1~	1~	1~	1~	1~
Net weight of the unit (empty) [kg] 98	Measures						
Permitted load [kg]303030303030Load per rack [kg]101010101010Wall clearance back [mm]100100100100100Wall clearance sidewise [mm]5050505050Mall clearance sidewise [mm]5050505050Internal Dimensions560560560560560Width [mm]600600600600600Depth [mm]600505505505505Doors11111Unit doors11111Husing dimensions not incl. fittings arcmettions800680680680680680Width net [mm]680680680680680680680680	Interior volume [L]	170	170	170	170	170	170
Load per rack [kg] 10 10 10 10 10 10 Wall clearance back [mm] 100 100 100 100 100 100 Wall clearance sidewise [mm] 50 50 50 50 50 50 Internal Dimensions 560 560 560 560 560 560 Width [mm] 505 505 505 505 505 505 Depth [mm] 600 600 600 600 600 600 Depth [mm] 505 505 505 505 505 505 Doors 1 1 1 1 1 1 Holdrofs 1 1 1 1 1 1 Housing dimensions not incl. fittings and connections 680 680 680 680 680 680 680 680 680 680 680 680 680 680 680 680 680 870 870	Net weight of the unit (empty) [kg]	98	98	98	98	98	98
Wall clearance back [mm]100100100100100Wall clearance sidewise [mm]5050505050Internal DimensionsWidth [mm]560560560560560Height [mm]600600600600600600Depth [mm]505505505505505DoorsUnit doors1111Husing dimensions not incl. fittings and connectionsWidth net [mm]680680680680680Boy870870870870870870	Permitted load [kg]	30	30	30	30	30	30
Wall clearance sidewise [mm]5050505050Internal DimensionsWidth [mm]560560560560560Height [mm]600600600600600600Depth [mm]505505505505505505DoorsInner doors11111Housing dimensions not incl. fittings and cromectionsWidth net [mm]680680680680680Boron870870870870870870	Load per rack [kg]	10	10	10	10	10	10
Internal Dimensions 560	Wall clearance back [mm]	100	100	100	100	100	100
Width [mm]560560560560560Height [mm]600600600600600600Depth [mm]505505505505505505Doors111111Unit doors111111Housing dimensions not incl. fittings and connections680680680680680Width net [mm]680680680680680680680	Wall clearance sidewise [mm]	50	50	50	50	50	50
Height [mm] 600 600 600 600 600 600 Depth [mm] 505 505 505 505 505 505 Doors 1 1 1 1 1 1 Unit doors 1 1 1 1 1 1 Housing dimensions not incl. fittings and connections 680 <td>Internal Dimensions</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Internal Dimensions						
Depth [mm]505505505505DoorsInner doors1111Unit doors1111Unit doors not incl. fittings and connections111Width net [mm]680680680680680Boy870870870870870	Width [mm]	560	560	560	560	560	560
Doors11111Unit doors111111Housing dimensions not incl. fittings and connections680680680680680Width net [mm]680680680680680680Height net [mm]870870870870870870	Height [mm]	600	600	600	600	600	600
Inner doors1111Unit doors11111Housing dimensions not incl. fittings arretionsWidth net [mm]680680680680680Height net [mm]870870870870870	Depth [mm]	505	505	505	505	505	505
Unit doors 1 1 1 1 1 Housing dimensions not incl. fittings and connections	Doors						
Housing dimensions not incl. fittings and connections Width net [mm] 680 680 680 680 680 Height net [mm] 870 870 870 870 870 870	Inner doors	1	1	1	1	1	1
Width net [mm] 680 680 680 680 680 680 Height net [mm] 870 <td>Unit doors</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td>	Unit doors	1	1	1	1	1	1
Height net [mm] 870 870 870 870 870 870 870	Housing dimensions not incl. fittings and	d connections					
	Width net [mm]	680	680	680	680	680	680
Depth net [mm] 715 715 715 715 715 715 715	Height net [mm]	870	870	870	870	870	870
	Depth net [mm]	715	715	715	715	715	715

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.

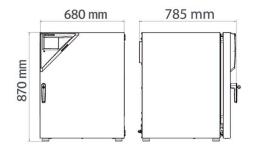
Data Sheet Model CB 170



Description	CB170-230V1	CB170-230V-D1	CB170-230V-01	CB170UL-120V ¹	CB170UL-120V-D1	CB170UL-120V-01
Article Number	9640-0009	9640-0027	9640-0010	9640-0011	9640-0028	9640-0012
Environment-specific data						
Energy consumption at 37 °C [Wh/h]	55	55	55	55	55	55
Sound-pressure level [dB(A)]	41	41	41	41	41	41
Fixtures	Fixtures					
Number of shelves (std./max.)	3/6	3/6	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

Designation	Description	*	ArtNo.
	back		
	30 mm	01	8612-0025
Access port with silicone	left		
plug	30 mm	01	8612-0026
	right		
	30 mm	01	8612-0027
Analog output 4-20 mA	for temperature and CO_2 values (outputs not adjustable)	02	8612-0022
Calibration certificate O ₂	for versions with O_2 control; a measuring point in center of chamber at a specified O_2 percentage value	-	8012-0229
	for temperature, measurement in center of chamber at specified temperature	-	8012-1132
Calibration certificate,	temperature measurement incl. certificate and 27 measuring points at specified temperature	-	8012-1592
temperature	temperature measurement incl. certificate, 15- 18 measuring points at specified temperature	-	8012-1571
	temperature measurement incl. certificate, 9 measuring points at specified temperature	-	8012-1550
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	_	8012-1235
CELLROLL Set	modular, expandable roller bottle system for cell cultivation, 4 roller bottles	-	8612-0023
Door hinged on the left	Unit door and standard glass inner door with door hinged on the left	-	8612-0034
Electric access port	8-pin, for low voltage with LEMO socket (coverable) and LEMO plug (max. 24 V – 2 A)	-	8612-0033
Inner door, divided	Cell therapy compartmentalization, consisting of 6 inner doors and three shelf levels with one partition wall each	-	8612-0030
0 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	-	8612-0028
Quick sample access	vewing window (13 x 25 cm) in the inner door for quick access	-	8612-0032

* Notes > See last page



ACCESSORIES

BINDER

Designation	Description	*	ArtNo.
APT-COM™ 4 BASIC-	for simple logging and documentation requirements with up to 5 networked units.		
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
PT-COM™ 4	convenient unit and user management built on the BASIC edition. Suitable for networking up to 100 units.		
PROFESSIONAL-Edition	version 4, PROFESSIONAL edition	-	9053-0040
Base	the base equipped with casters is used for the secure positioning and leveling of a BINDER CO_2 incubator	-	9051-0028
Copper interior fittings	Set consisting of 3 shelves (all-copper) and a water pan (copper-plated), more information.	-	8012-1918
	for CO_2 , consisting of a gas tank pressure regulator with connection parts and 5-meter hose	-	8012-0014
Gas cylinder connection	for N_2 , consisting of a gas tank pressure regulator with connection parts and 5-meter hose	-	8012-0016
	for O ₂ , consisting of a gas tank pressure regulator with connection parts and 5-meter hose	-	8012-0015
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
	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	-	7057-0001
Qualification documents	Hard copy inside folder	-	7007-0003
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, CO_2 , O_2 – or pressure, depending on unit		
	Digital in PDF format	-	7057-000
	Hard copy inside folder	-	7007-000
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	for the thermally isolated stacking of two BINDER CO $_2$ incubators	-	9051-0035
Stacking frame	stable, vibration-free stacking frame on casters with stop brake for safe stacking of two CB series units	-	9051-0040
WLAN kit	The kit contains a client bridge that establishes a wireless connection between BINDER units and APT-COM4, LIMS, or customer-specific software via an Ethernet interface. It provides an alternative solution in situations where units need to be positioned in locations without an on-site Ethernet connection. In secured networks, installation and configuration must be performed by the customer's IT service.	-	8500-0162

* Notes > See last page

SERVICES

Description	*	ArtNo.
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)	05	DL10-0100
Instruction regarding operating principle and basic functions of the unit, operation of the control electronics including programming	05	DL10-0500
Maintenance service as contractually agreed, visual inspection of mechanical and electrical components, check of control response, 20% discount on spare parts	05	DL20-0710
	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) Instruction regarding operating principle and basic functions of the unit, operation of the control electronics including programming Maintenance service as contractually agreed, visual inspection of mechanical and electrical components,	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) 05 Instruction regarding operating principle and basic functions of the unit, operation of the control electronics including programming 05 Maintenance service as contractually agreed, visual inspection of mechanical and electrical components, or 05

* Notes > See last page

Data Sheet Model CB 170

BINDER

Designation	Description	*	ArtNo.
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 temperature and CO ₂ value, including certificate	05	DL20-0940
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	05	DL20-0400
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	05	DL20-0820
Calibration services			
Calibration costificato tomporaturo	Calibration of one (1) test temperature specified by the user in center of chamber, including certificate	03, 04, 05	DL30-0101
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	03, 04, 05	DL30-0102
CO ₂ calibration	CO_2 calibration at a specified value, measurements are taken with analyzed test gas at 5%, including certificate	03, 04, 05	DL30-0401
O2 calibration	$O_{\rm 2}$ calibration with 1 measuring point in center of chamber at a specified $O_{\rm 2}$ percentage value, including certificate	03, 04, 05	DL30-0402
Temperature measurement, 18 measuring points	Temperature measurement with 18 measuring points with a set value specified by the user, including certificate	03, 04, 05	DL30-0118
Temperature measurement, 27 measuring points	Temperature measurement with 27 measuring points with a set value specified by the user, including certificate	03, 04, 05	DL30-0127
Temperature measurement, 9 measuring points	Temperature measurement with 9 measuring points with a set value specified by the user, including certificate	03, 04, 05	DL30-0109
Validation services			
Execution of IQ/OQ	Execution of IQ/OQ in accordance with qualification folder	05	DL41-0200
Execution of IQ/OQ/PQ	Execution of IQ/OQ/PQ in accordance with qualification folder	05	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 > 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. UL mark is not granted when this option is used. 01
- 02
- Sensor calibration is performed in an accredited calibration laboratory. 03
- Calibration is performed according to the BINDER factory standard. 04
- 05 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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