

# Model CB 260 | CO<sub>2</sub> incubators with hot air sterilization and heat sterilizable CO<sub>2</sub> sensor

The BINDER CB series CO<sub>2</sub> incubator is the premium class among the CO<sub>2</sub> incubators. It is suitable for all sensitive incubation applications and ensures optimal cell growth. A BINDER CB series CO<sub>2</sub> incubator can perform complex cultivation experiments as well as specific environmental conditions.

## 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 without fixtures
- Stable pH values thanks to drift-free CO<sub>2</sub> IR sensor technology
- Low evaporation of the medium due to high levels of humidity and quick recovery time



Model 260



Model 260

## MAIN FEATURES

- Temperature range: +5 °C above ambient temperature to +60 °C
- Humidity range: up to 95% RH
- O<sub>2</sub> control range: 0.2 to 20 vol.% O<sub>2</sub> for versions with O<sub>2</sub> control
- Auto-sterilization with hot air at +180 °C
- Double-pan humidification system with condensation protection
- CO<sub>2</sub> gas mixing jet with Venturi effect
- Hot air sterilizable CO<sub>2</sub> sensor with infrared technology
- Intuitive touchscreen controller
- Internal data logger, measured values can be read out in open format via USB
- Lockable door handle
- Tightly sealed inner door made of tempered safety glass
- Seamless stainless steel inner chamber
- 3 perforated stainless steel shelves
- Units are stackable with stacking adapter
- Troubleshooting system with visual and acoustic alarms
- Computer interface: Ethernet
- Zero-voltage alarm contact

## OPTIONAL EQUIPMENT

- Versions with O<sub>2</sub> control range: 0.2 to 20 vol.% O<sub>2</sub> or 10 to 95 vol.% O<sub>2</sub>
- Versions with humidity control range: 50 to 95% RH due to active humidification
- Convenient water supply with reusable tubular bags, pre-filled single-liter water bottle, or water container set with magnetic holder, for versions with active humidification
- Multi-sectional glass doors with special shelves for dividing up the space to accommodate different experiments
- Stacking adapter for secure, space-saving installation
- CO<sub>2</sub> gas tank changer for connecting two gas tanks to one or two incubators
- CO<sub>2</sub> shaker with corrosion-resistant components in a stainless-steel housing
- APT-COM Multi Management Software – for managing, recording, and documenting unit parameters
- Services – wide range of services to ensure that the unit functions correctly

## ORDERING INFORMATION

| Interior volume [L] | Voltage                    | Option model                                                  | Version         | Art.-No.  |
|---------------------|----------------------------|---------------------------------------------------------------|-----------------|-----------|
| 267                 | 200...230 V 1~ ph 50/60 Hz | Standard                                                      | CB260-230V      | 9040-0147 |
|                     |                            | with O <sub>2</sub> control                                   | CB260-230V-O    | 9040-0148 |
|                     |                            | with active humidification                                    | CB260-230V-F    | 9040-0149 |
|                     |                            | with O <sub>2</sub> control 0.2–20% and active humidification | CB260-230V-OF   | 9040-0150 |
|                     | 100...120 V 1~ ph 50/60 Hz | Standard                                                      | CB260UL-120V    | 9040-0152 |
|                     |                            | with O <sub>2</sub> control                                   | CB260UL-120V-O  | 9040-0153 |
|                     |                            | with active humidification                                    | CB260UL-120V-F  | 9040-0154 |
|                     |                            | with O <sub>2</sub> control 0.2–20% and active humidification | CB260UL-120V-OF | 9040-0155 |

## TECHNICAL DATA (Version 1-4 from 8)

| Description                                                                                | CB260-230V <sup>1</sup> | CB260-230V-O <sup>1</sup> | CB260-230V-F <sup>1</sup> | CB260-230V-OF <sup>1</sup> |
|--------------------------------------------------------------------------------------------|-------------------------|---------------------------|---------------------------|----------------------------|
| Article Number                                                                             | 9040-0147               | 9040-0148                 | 9040-0149                 | 9040-0150                  |
| Performance Data Temperature                                                               |                         |                           |                           |                            |
| Temperature range +5 °C above ambient temperature to                                       | 60                      | 60                        | 60                        | 60                         |
| Temperature variation at 37 °C [± K]                                                       | 0.4                     | 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]                                                                      | 90...95                 | 90...95                   | 90...95                   | 90...95                    |
| CO <sub>2</sub> -Data                                                                      |                         |                           |                           |                            |
| CO <sub>2</sub> range [Vol.-% CO <sub>2</sub> ]                                            | 0...20                  | 0...20                    | 0...20                    | 0...20                     |
| CO <sub>2</sub> measurement                                                                | IR                      | IR                        | IR                        | IR                         |
| CO <sub>2</sub> Recovery time after 30 seconds door open at 5 Vol.-% CO <sub>2</sub> [min] | 5                       | 5                         | 5                         | 5                          |
| O <sub>2</sub> -Data                                                                       |                         |                           |                           |                            |
| Standard O <sub>2</sub> control ranges: O <sub>2</sub> range [Vol.-% O <sub>2</sub> ]      |                         | 0.2...20                  |                           | 0.2...20                   |
| O <sub>2</sub> control ranges with option: O <sub>2</sub> range [Vol.-% O <sub>2</sub> ]   |                         | 10...95                   |                           | 10...95                    |
| O <sub>2</sub> Recovery time after 30 seconds door open at 5 Vol.-% O <sub>2</sub> [min]   |                         | 15                        |                           | 15                         |
| Electrical data                                                                            |                         |                           |                           |                            |
| Rated Voltage [V]                                                                          | 200...230               | 200...230                 | 200...230                 | 200...230                  |
| Power frequency [Hz]                                                                       | 50/60                   | 50/60                     | 50/60                     | 50/60                      |
| Nominal power [kW]                                                                         | 1.5                     | 1.5                       | 1.5                       | 1.5                        |
| Unit fuse [A]                                                                              | 10                      | 10                        | 10                        | 10                         |
| Phase (Nominal voltage)                                                                    | 1~                      | 1~                        | 1~                        | 1~                         |
| Measures                                                                                   |                         |                           |                           |                            |
| Interior volume [L]                                                                        | 267                     | 267                       | 267                       | 267                        |
| Net weight of the unit (empty) [kg]                                                        | 125                     | 125                       | 125                       | 125                        |
| Permitted load [kg]                                                                        | 40                      | 40                        | 40                        | 40                         |
| Load per rack [kg]                                                                         | 10                      | 10                        | 10                        | 10                         |
| Wall clearance back [mm]                                                                   | 100                     | 100                       | 100                       | 100                        |
| Wall clearance sidewise [mm]                                                               | 50                      | 50                        | 50                        | 50                         |

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                                           | CB260-230V <sup>1</sup> | CB260-230V-0 <sup>1</sup> | CB260-230V-F <sup>1</sup> | CB260-230V-OF <sup>1</sup> |
|-------------------------------------------------------|-------------------------|---------------------------|---------------------------|----------------------------|
| Article Number                                        | 9040-0147               | 9040-0148                 | 9040-0149                 | 9040-0150                  |
| Internal Dimensions                                   |                         |                           |                           |                            |
| Width [mm]                                            | 620                     | 620                       | 620                       | 620                        |
| Height [mm]                                           | 750                     | 750                       | 750                       | 750                        |
| Depth [mm]                                            | 575                     | 575                       | 575                       | 575                        |
| Doors                                                 |                         |                           |                           |                            |
| Inner doors                                           | 1                       | 1                         | 6                         | 6                          |
| Unit doors                                            | 1                       | 1                         | 1                         | 1                          |
| Housing dimensions not incl. fittings and connections |                         |                           |                           |                            |
| Width net [mm]                                        | 740                     | 740                       | 740                       | 740                        |
| Height net [mm]                                       | 1020                    | 1020                      | 1020                      | 1020                       |
| Depth net [mm]                                        | 785                     | 785                       | 785                       | 785                        |
| Environment-specific data                             |                         |                           |                           |                            |
| Energy consumption at 37 °C [Wh/h]                    | 65                      | 65                        | 65                        | 65                         |
| Sound-pressure level [dB(A)]                          | 41                      | 41                        | 41                        | 41                         |
| Fixtures                                              |                         |                           |                           |                            |
| Number of shelves (std./max.)                         | 3/8                     | 3/8                       | 3/8                       | 3/8                        |

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## TECHNICAL DATA (Version 5-8 from 8)

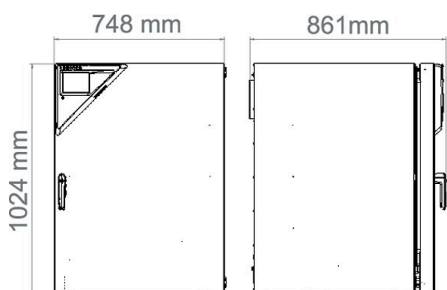
| Description                                                                                | CB260UL-120V <sup>1</sup> | CB260UL-120V-0 <sup>1</sup> | CB260UL-120V-F <sup>1</sup> | CB260UL-120V-OF <sup>1</sup> |
|--------------------------------------------------------------------------------------------|---------------------------|-----------------------------|-----------------------------|------------------------------|
| Article Number                                                                             | 9040-0152                 | 9040-0153                   | 9040-0154                   | 9040-0155                    |
| Performance Data Temperature                                                               |                           |                             |                             |                              |
| Temperature range +5 °C above ambient temperature to                                       | 60                        | 60                          | 60                          | 60                           |
| Temperature variation at 37 °C [± K]                                                       | 0.4                       | 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]                                                                      | 90...95                   | 90...95                     | 90...95                     | 90...95                      |
| CO <sub>2</sub> -Data                                                                      |                           |                             |                             |                              |
| CO <sub>2</sub> range [Vol.-% CO <sub>2</sub> ]                                            | 0...20                    | 0...20                      | 0...20                      | 0...20                       |
| CO <sub>2</sub> measurement                                                                | IR                        | IR                          | IR                          | IR                           |
| CO <sub>2</sub> Recovery time after 30 seconds door open at 5 Vol.-% CO <sub>2</sub> [min] | 5                         | 5                           | 5                           | 5                            |
| O <sub>2</sub> -Data                                                                       |                           |                             |                             |                              |
| Standard O <sub>2</sub> control ranges: O <sub>2</sub> range [Vol.-% O <sub>2</sub> ]      |                           | 0.2...20                    |                             | 0.2...20                     |
| O <sub>2</sub> control ranges with option: O <sub>2</sub> range [Vol.-% O <sub>2</sub> ]   |                           | 10...95                     |                             | 10...95                      |
| O <sub>2</sub> Recovery time after 30 seconds door open at 5 Vol.-% O <sub>2</sub> [min]   |                           | 15                          |                             | 15                           |

- 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                                                  | CB260UL-120V <sup>1</sup> | CB260UL-120V-0 <sup>1</sup> | CB260UL-120V-F <sup>1</sup> | CB260UL-120V-OF <sup>1</sup> |
|--------------------------------------------------------------|---------------------------|-----------------------------|-----------------------------|------------------------------|
| Article Number                                               | 9040-0152                 | 9040-0153                   | 9040-0154                   | 9040-0155                    |
| <b>Electrical data</b>                                       |                           |                             |                             |                              |
| Rated Voltage [V]                                            | 100...120                 | 100...120                   | 100...120                   | 100...120                    |
| Power frequency [Hz]                                         | 50/60                     | 50/60                       | 50/60                       | 50/60                        |
| Nominal power [kW]                                           | 1.5                       | 1.5                         | 1.5                         | 1.5                          |
| Unit fuse [A]                                                | 16                        | 16                          | 16                          | 16                           |
| Phase (Nominal voltage)                                      | 1~                        | 1~                          | 1~                          | 1~                           |
| <b>Measures</b>                                              |                           |                             |                             |                              |
| Interior volume [L]                                          | 267                       | 267                         | 267                         | 267                          |
| Net weight of the unit (empty) [kg]                          | 125                       | 125                         | 125                         | 125                          |
| Permitted load [kg]                                          | 40                        | 40                          | 40                          | 40                           |
| Load per rack [kg]                                           | 10                        | 10                          | 10                          | 10                           |
| Wall clearance back [mm]                                     | 100                       | 100                         | 100                         | 100                          |
| Wall clearance sidewise [mm]                                 | 50                        | 50                          | 50                          | 50                           |
| <b>Internal Dimensions</b>                                   |                           |                             |                             |                              |
| Width [mm]                                                   | 620                       | 620                         | 620                         | 620                          |
| Height [mm]                                                  | 750                       | 750                         | 750                         | 750                          |
| Depth [mm]                                                   | 575                       | 575                         | 575                         | 575                          |
| <b>Doors</b>                                                 |                           |                             |                             |                              |
| Inner doors                                                  | 1                         | 1                           | 6                           | 6                            |
| Unit doors                                                   | 1                         | 1                           | 1                           | 1                            |
| <b>Housing dimensions not incl. fittings and connections</b> |                           |                             |                             |                              |
| Width net [mm]                                               | 740                       | 740                         | 740                         | 740                          |
| Height net [mm]                                              | 1020                      | 1020                        | 1020                        | 1020                         |
| Depth net [mm]                                               | 785                       | 785                         | 785                         | 785                          |
| <b>Environment-specific data</b>                             |                           |                             |                             |                              |
| Energy consumption at 37 °C [Wh/h]                           | 65                        | 65                          | 65                          | 65                           |
| Sound-pressure level [dB(A)]                                 | 41                        | 41                          | 41                          | 41                           |
| <b>Fixtures</b>                                              |                           |                             |                             |                              |
| 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 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                                                                                                                                                                   | *  | Art.-No.  |
|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|
| Access port with silicone plug                           | back                                                                                                                                                                          |    |           |
|                                                          | 30 mm                                                                                                                                                                         | 01 | 8012-1390 |
|                                                          | left                                                                                                                                                                          |    |           |
|                                                          | 30 mm                                                                                                                                                                         | 01 | 8012-1391 |
|                                                          | right                                                                                                                                                                         |    |           |
|                                                          | 30 mm                                                                                                                                                                         | 01 | 8012-1392 |
| Analog output 4-20 mA                                    | for temperature and CO <sub>2</sub> values (outputs not adjustable)                                                                                                           | 02 | 8012-1839 |
|                                                          | for temperature and CO <sub>2</sub> values (outputs not adjustable), for versions with O <sub>2</sub> control                                                                 | 02 | 8012-1840 |
| Calibration certificate O <sub>2</sub>                   | for versions with O <sub>2</sub> control; a measuring point in center of chamber at a specified O <sub>2</sub> percentage value                                               | –  | 8012-0229 |
| Calibration certificate, expanded                        | for temperature; for extending the measurement in center of chamber to include another test temperature                                                                       | –  | 8012-1113 |
| Calibration certificate, temperature                     | for temperature, measurement in center of chamber at specified temperature                                                                                                    | –  | 8012-1132 |
|                                                          | temperature measurement incl. certificate and 27 measuring points at specified temperature                                                                                    | –  | 8012-1592 |
|                                                          | 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 <sub>2</sub> | for temperature and CO <sub>2</sub> , temperature measurement in center of chamber, CO <sub>2</sub> measurement performed using test gas at 37 °C and 5 % CO <sub>2</sub>     | –  | 8012-1235 |
| CELLROLL Set                                             | modular, expandable roller bottle system for cell cultivation, 6 roller bottles                                                                                               | –  | 8012-0572 |
| Door hinged on the left                                  | Unit door and standard glass inner door with door hinged on the left                                                                                                          | –  | 8012-1915 |
| Electric access port                                     | 8-pin, for low voltage with LEMO socket (coverable) and LEMO plug (max. 24 V – 2 A)                                                                                           | –  | 8012-1848 |
| Inner door, divided                                      | Internal door divided into 8 parts                                                                                                                                            |    |           |
|                                                          | door hinged on the left (incl. option door hinged on the left)                                                                                                                | –  | 8012-1926 |
|                                                          | door hinged on the right                                                                                                                                                      | –  | 8012-1845 |
| O <sub>2</sub> control range                             | alternative to the standard range, for controlling O <sub>2</sub> concentrations between 10 and 95 vol. %, only in conjunction with option models with O <sub>2</sub> control | –  | 9419-0134 |
| Quick sample access                                      | viewing window (13 x 25 cm) in the inner door for quick access                                                                                                                |    |           |
|                                                          | door hinged on the left (incl. option door hinged on the left)                                                                                                                | –  | 8012-1925 |
|                                                          | door hinged on the right                                                                                                                                                      | –  | 8012-1923 |

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## ACCESSORIES

| Designation                     | Description                                                                                                                                                                                                                                                        | * | Art.-No.  |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----------|
| APT-COM™ 4 BASIC-Edition        | for simple logging and documentation requirements with up to 5 networked units.<br>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.<br>version 4, GLP edition                                                                              | – | 9053-0042 |
| APT-COM™ 4 PROFESSIONAL-Edition | convenient unit and user management built on the BASIC edition. Suitable for networking up to 100 units.<br>version 4, PROFESSIONAL edition                                                                                                                        | – | 9053-0040 |
| Base                            | the base equipped with casters is used for the secure positioning and leveling of a BINDER CO <sub>2</sub> incubator                                                                                                                                               | – | 9051-0044 |
| Convenient water supply         | Set consisting of 10 liter water container with magnetic holder, hose adapter with practical quick coupling and water stop function, flexible positioning, enables water to be supplied to multiple CB units simultaneously via a water container, not pre-filled. |   |           |
|                                 | for versions with active humidification                                                                                                                                                                                                                            | – | 8009-1128 |
| Gas cylinder connection set     | for CO <sub>2</sub> , consisting of a gas tank pressure regulator with connection parts and 5-meter hose                                                                                                                                                           | – | 8012-0014 |
|                                 | for N <sub>2</sub> , consisting of a gas tank pressure regulator with connection parts and 5-meter hose                                                                                                                                                            | – | 8012-0016 |
|                                 | for O <sub>2</sub> , 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 <sub>2</sub> , N <sub>2</sub> or O <sub>2</sub> ), 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 |

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| Designation                    | Description                                                                                                                                                                                                                                                         | * | Art.-No.  |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----------|
| <b>Qualification documents</b> | 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 <sub>2</sub> , O <sub>2</sub> , pressure, depending on unit |   |           |
|                                | Digital in PDF format                                                                                                                                                                                                                                               | – | 7057-0001 |
|                                | Hard copy inside folder                                                                                                                                                                                                                                             | – | 7007-0001 |
|                                | 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 <sub>2</sub> , O <sub>2</sub> – or pressure, depending on unit     |   |           |
|                                | Digital in PDF format                                                                                                                                                                                                                                               | – | 7057-0005 |
|                                | Hard copy inside folder                                                                                                                                                                                                                                             | – | 7007-0005 |
| <b>Rubber pads</b>             | set anti-slip feet                                                                                                                                                                                                                                                  | – | 8012-0702 |
| <b>Shaker „Professional“</b>   | Shaker and controller equipped with LEMO connectors, exclusively for CB with electric access port, 100 – 240 V, 50/60 Hz                                                                                                                                            | – | 8012-1772 |
| <b>Shaker „Universal“</b>      | Shaker and controller connected via ribbon cable, universally applicable, 100 – 240 V, 50/60 Hz                                                                                                                                                                     | – | 8012-1771 |
| <b>Shelf, perforated</b>       | Stainless steel                                                                                                                                                                                                                                                     | – | 6004-0197 |
|                                | for divided inner door                                                                                                                                                                                                                                              |   |           |
|                                | Stainless steel, divided                                                                                                                                                                                                                                            | – | 8012-1996 |
| <b>Stacking adapter</b>        | for the thermally isolated stacking of two BINDER CO <sub>2</sub> incubators                                                                                                                                                                                        | – | 9051-0039 |
| <b>Stacking frame</b>          | stable, vibration-free stacking frame on casters with stop brake for safe stacking of two CB series units                                                                                                                                                           | – | 9051-0041 |
| <b>Water supply</b>            | Set consisting of 10 bottles, each with 1,000 ml of sterile humidification water, including peristaltic tubing, connectors, and fine gas filters                                                                                                                    |   |           |
|                                | for versions with active humidification                                                                                                                                                                                                                             | – | 8009-1104 |
|                                | Set consisting of 12 empty, refillable tubular bags including peristaltic tubing, connectors, and fine gas filters                                                                                                                                                  |   |           |
|                                | for versions with active humidification                                                                                                                                                                                                                             | – | 8009-1058 |
|                                | Set consisting of 3 empty, refillable tubular bags including peristaltic tubing, connectors, and fine gas filters                                                                                                                                                   |   |           |
|                                | for versions with active humidification                                                                                                                                                                                                                             | – | 8009-1083 |

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## SERVICES

| Designation                                  | Description                                                                                                                                                                                                                                            | *          | Art.-No.  |
|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|
| <b>Installation services</b>                 |                                                                                                                                                                                                                                                        |            |           |
| Unit 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)                       | 05         | DL10-0100 |
| Unit instructions                            | Instruction regarding operating principle and basic functions of the unit, operation of the control electronics including programming                                                                                                                  | 05         | DL10-0500 |
| <b>Maintenance services</b>                  |                                                                                                                                                                                                                                                        |            |           |
| Maintenance                                  | 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 chamber without certificate | 05         | DL20-0400 |
| <b>Calibration services</b>                  |                                                                                                                                                                                                                                                        |            |           |
| Calibration certificate, temperature         | Calibration of one (1) test temperature specified by the user in center of chamber including certificate                                                                                                                                               | 03, 04, 05 | DL30-0101 |
|                                              | 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 <sub>2</sub> calibration                  | CO <sub>2</sub> calibration at a specified value, measurements are taken with analyzed test gas at 5%, including certificate                                                                                                                           | 03, 04, 05 | DL30-0401 |
| O <sub>2</sub> calibration                   | O <sub>2</sub> calibration with 1 measuring point in center of chamber at a specified O <sub>2</sub> 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 |

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| Designation                          | Description                                                                                | *  | Art.-No.  |
|--------------------------------------|--------------------------------------------------------------------------------------------|----|-----------|
| 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                     |                                                                                            |    |           |
| Warranty extension from 2 to 3 years | The warranty is extended from 2 to 3 years from the delivery date, wear parts are excluded | –  | DL02-1041 |
| Warranty extension from 2 to 5 years | The warranty is extended from 2 to 5 years from the delivery date, wear parts are excluded | –  | DL02-1042 |

\* Notes › See last page

**NOTES**

- 01 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.
- 03 Sensor calibration is performed in an accredited calibration laboratory.
- 04 Calibration is performed according to the BINDER factory standard.
- 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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