

Model ED 260 | Drying and heating chambers with natural convection

The strengths of a BINDER ED series drying chamber include routine drying and sterilization tasks up to 300 °C. Thanks to the natural convection, all thermal processes which use this drying chamber are highly efficient. The ED series ensures fast, uniform drying.

BENEFITS

- · Best energy efficiency on the market
- · Excellent temporal and spatial temperature accuracy
- USB connection for recording data
- Temperature range up to 300 °C





Model 260

Model 260

MAIN FEATURES

- Temperature range: ambient temperature plus 5 °C to 300 °C
- Up to 30% lower energy consumption compared to conventional units on the market
- High temperature accuracy thanks to APT.line[™] technology
- Natural convection
- Controller with LCD display
- · Electromechanical control of the exhaust air flap

- 2 chrome-plated racks
- Class 2 integrated independent adjustable temperature safety device (DIN 12880) with visual alarm
- · Ergonomic handle design
- · USB port for recording data

ORDERING INFORMATION

| Interior volume [L] | Voltage | Option model | Version | ArtNo. |
|---------------------|----------------------|--------------|--------------|-----------|
| Model ED 260 | | | | |
| 255 | 230 V 1~ ph 50/60 Hz | Standard | ED260-230V | 9010-0339 |
| | 240 V 1~ ph 60 Hz | Standard | ED260UL-240V | 9010-0340 |

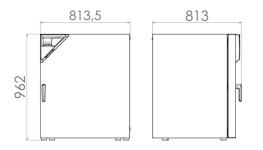


TECHNICAL DATA

| Description | ED260-230V1 | ED260UL-240V ¹ |
|--|-------------|---------------------------|
| Article Number | 9010-0339 | 9010-0340 |
| Performance Data Temperature | | |
| Temperature range 5 °C above ambient temperature to [°C] | 300 | 300 |
| Temperature variation at 150 °C [± K] | 1.8 | 1.8 |
| Temperature fluctuation at 150 °C [± K] | 0.8 | 0.8 |
| Heating-up time to 150 °C [min] | 50 | 50 |
| Recovery time after 30 seconds door open at 150 °C [min] | 20 | 20 |
| Electrical data | | |
| Rated Voltage [V] | 230 | 240 |
| Power frequency [Hz] | 50/60 | 60 |
| Nominal power [kW] | 2.25 | 2.45 |
| Unit fuse [A] | 12.5 | 16 |
| Phase (Nominal voltage) | 1~ | 1~ |
| Measures | | |
| Interior volume [L] | 255 | 255 |
| Net weight of the unit (empty) [kg] | 85 | 85 |
| permitted load [kg] | 270 | 270 |
| Load per rack [kg] | 40 | 40 |
| Wall clearance back [mm] | 160 | 160 |
| Wall clearance sidewise [mm] | 100 | 100 |
| Doors | | |
| Unit doors | 1 | 1 |
| Internal Dimensions | | |
| Depth [mm] | 550 | 550 |
| Height [mm] | 760 | 760 |
| Width [mm] | 610 | 610 |
| Housing dimensions not incl. fittings and connections | | |
| Width net [mm] | 810 | 810 |
| Height net [mm] | 850 | 850 |
| Depth net [mm] | 760 | 760 |
| Environment-specific data | | |
| Energy consumption at 150 °C [Wh/h] | 355 | 355 |
| Fixtures | | |
| Number of shelves (std./max.) | 2/8 | 2/8 |
| | | |

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 AND ACCESSORIES



| Designation | Description | * | ArtNo. |
|--|--|--|--|
| | back | | |
| | 10 mm | 01 | 8012-1282 |
| | 30 mm | 01 | 8012-0540 |
| | 50 mm | 01 | 8012-0546 |
| | left | | |
| Access port with silicone plug | 10 mm | 01 | 8012-1275 |
| | 30 mm | 01 | 8012-1018 |
| | 50 mm | 01 | 8012-1022 |
| | 100 mm | | 8012-1030 |
| | right | | |
| | 10 mm | 01 | 8012-1268 |
| | 30 mm | 01 | 8012-1017 |
| | 50 mm | 01 | 8012-102 |
| | 100 mm | 01 | 8012-103 |
| | top | | |
| | 10 mm | 01 | 8012-1262 |
| | 30 mm | 01 | 8012-0539 |
| | 50 mm | 01 | 8012-0545 |
| | 100 mm | 01, 10 | 8012-1029 |
| larm function for verheating | Switchable acoustic alarm, with adjustable limit value on the independent temperature safety device | - | 8012-163 |
| nalog output 4-20 mA | for temperature values (output not adjustable) | 02 | 8012-1623 |
| PT-COM™ 4 BASIC- | for simple logging and documentation requirements with up to 5 networked units. | | |
| dition | 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 |
| PT-COM™ 4 | convenient unit and user management built on the BASIC edition. Suitable for networking up to 100 units. | | |
| ROFESSIONAL- dition | version 4, PROFESSIONAL edition | 19 | 9053-0040 |
| Calibration certificate, xpanded | for temperature; for extending the measurement in center of chamber to include another test temperature | - | 8012-111 |
| | for temperature, measurement in center of chamber at specified temperature | - | 8012-1134 |
| Calibration cortificato | | | |
| alibration certificate. | temperature measurement incl. certificate and 27 measuring points at specified temperature | - | 8012-1593 |
| , | temperature measurement incl. certificate and 27 measuring points at specified temperature temperature measurement incl. certificate, 15- 18 measuring points at specified temperature | - | |
| , | | | 8012-1572 |
| emperature lass 3.1 independent emperature safety | temperature measurement incl. certificate, 15- 18 measuring points at specified temperature | - | 8012-1572 8012-155 |
| emperature Class 3.1 independent emperature safety evice | temperature measurement incl. certificate, 15- 18 measuring points at specified temperature temperature measurement incl. certificate, 9 measuring points at specified temperature with visual alarm (DIN 12880) | - | 8012-157 8012-155 8012-098 |
| Calibration certificate, emperature Class 3.1 independent emperature safety levice Clock Data Logger Kit | temperature measurement incl. certificate, 15- 18 measuring points at specified temperature temperature measurement incl. certificate, 9 measuring points at specified temperature | - - 04, 12 | 8012-1593 8012-1572 8012-1557 8012-0985 8012-0985 8012-1640 8012-0714 |
| emperature lass 3.1 independent emperature safety evice lock | temperature measurement incl. certificate, 15- 18 measuring points at specified temperature temperature measurement incl. certificate, 9 measuring points at specified temperature with visual alarm (DIN 12880) battery-backed T 350: For continuous temperature logging from 0 °C to 350 °C; kit includes 1 data logger, Pt 100 sensor with 2 m | - - 04, 12 - | 8012-157 8012-155 8012-098 8012-164 8012-071 |
| Independent Iass 3.1 independent Imperature safety evice Iock Iock Iata Logger Kit Iata Logger Software | temperature measurement incl. certificate, 15- 18 measuring points at specified temperature temperature measurement incl. certificate, 9 measuring points at specified temperature with visual alarm (DIN 12880) battery-backed T 350: For continuous temperature logging from 0 °C to 350 °C; kit includes 1 data logger, Pt 100 sensor with 2 m extension cable and 1 magnetic fixture for mounting to the BINDER unit LOG ANALYZE software kit, configuration and evaluation software for all BINDER Data Logger Kits (incl. USB data | - - 04, 12 - 19 | 8012-157 8012-155 8012-098 8012-164 8012-071 8012-071 |
| Independent Independent Imperature safety evice Iock Iock Index Iock Iock Iock Iock Iock Iock Iock Iock | temperature measurement incl. certificate, 15- 18 measuring points at specified temperature temperature measurement incl. certificate, 9 measuring points at specified temperature with visual alarm (DIN 12880) battery-backed T 350: For continuous temperature logging from 0 °C to 350 °C; kit includes 1 data logger, Pt 100 sensor with 2 m extension cable and 1 magnetic fixture for mounting to the BINDER unit LOG ANALYZE software kit, configuration and evaluation software for all BINDER Data Logger Kits (incl. USB data cable) | - - 04, 12 - 19 19 | 8012-157 8012-155 8012-098 8012-164 8012-071- 8012-071- 8012-082 8012-101 |
| emperature lass 3.1 independent emperature safety evice lock lata Logger Kit | temperature measurement incl. certificate, 15- 18 measuring points at specified temperature temperature measurement incl. certificate, 9 measuring points at specified temperature with visual alarm (DIN 12880) battery-backed T 350: For continuous temperature logging from 0 °C to 350 °C; kit includes 1 data logger, Pt 100 sensor with 2 m extension cable and 1 magnetic fixture for mounting to the BINDER unit LOG ANALYZE software kit, configuration and evaluation software for all BINDER Data Logger Kits (incl. USB data cable) made of FKM, silicone-free | - - 04, 12 - 19 19 03 | 8012-157 8012-155 8012-098 8012-164 8012-071 8012-082 8012-082 8012-101 8012-166 |
| emperature elass 3.1 independent emperature safety evice elock elata Logger Kit eata Logger Software eloor gasket eloor lock thernet interface | temperature measurement incl. certificate, 15- 18 measuring points at specified temperature temperature measurement incl. certificate, 9 measuring points at specified temperature with visual alarm (DIN 12880) battery-backed T 350: For continuous temperature logging from 0 °C to 350 °C; kit includes 1 data logger, Pt 100 sensor with 2 m extension cable and 1 magnetic fixture for mounting to the BINDER unit LOG ANALYZE software kit, configuration and evaluation software for all BINDER Data Logger Kits (incl. USB data cable) made of FKM, silicone-free lockable door handle | - - 04, 12 - 19 19 03 | 8012-157 8012-155 8012-098 8012-164 8012-071 8012-071 8012-082 8012-101 8012-166 8012-164 |
| emperature elass 3.1 independent emperature safety evice lock lata Logger Kit lata Logger Software loor gasket loor lock | temperature measurement incl. certificate, 15- 18 measuring points at specified temperature temperature measurement incl. certificate, 9 measuring points at specified temperature with visual alarm (DIN 12880) battery-backed T 350: For continuous temperature logging from 0 °C to 350 °C; kit includes 1 data logger, Pt 100 sensor with 2 m extension cable and 1 magnetic fixture for mounting to the BINDER unit LOG ANALYZE software kit, configuration and evaluation software for all BINDER Data Logger Kits (incl. USB data cable) made of FKM, silicone-free lockable door handle for Multi Management Software APT-COM™ | - - 04, 12 - 19 19 03 | 8012-157 8012-155 8012-098 8012-164 8012-071 8012-082 8012-101 8012-104 8012-164 8012-164 |
| emperature lass 3.1 independent emperature safety evice lock ata Logger Kit ata Logger Software oor gasket oor lock thernet interface istrument tray | temperature measurement incl. certificate, 15- 18 measuring points at specified temperature temperature measurement incl. certificate, 9 measuring points at specified temperature with visual alarm (DIN 12880) battery-backed T 350: For continuous temperature logging from 0 °C to 350 °C; kit includes 1 data logger, Pt 100 sensor with 2 m extension cable and 1 magnetic fixture for mounting to the BINDER unit LOG ANALYZE software kit, configuration and evaluation software for all BINDER Data Logger Kits (incl. USB data cable) made of FKM, silicone-free lockable door handle for Multi Management Software APT-COM™ with lid made from 18/8 stainless steel, stackable, dimensions: 230 x 133 x 45 mm | - - 04, 12 - 19 19 03 - - - - - | 8012-1577 8012-1557 8012-0988 8012-1640 8012-0714 8012-0822 8012-1017 8012-1049 8012-1649 8012-1649 |
| emperature elass 3.1 independent emperature safety evice elock elata Logger Kit eata Logger Software eloor gasket eloor lock thernet interface | temperature measurement incl. certificate, 15- 18 measuring points at specified temperature temperature measurement incl. certificate, 9 measuring points at specified temperature with visual alarm (DIN 12880) battery-backed T 350: For continuous temperature logging from 0 °C to 350 °C; kit includes 1 data logger, Pt 100 sensor with 2 m extension cable and 1 magnetic fixture for mounting to the BINDER unit LOG ANALYZE software kit, configuration and evaluation software for all BINDER Data Logger Kits (incl. USB data cable) made of FKM, silicone-free lockable door handle for Multi Management Software APT-COM™ with lid made from 18/8 stainless steel, stackable, dimensions: 230 x 133 x 45 mm with lid made from 18/8 stainless steel, stackable, dimensions: 315 x 215 x 60 mm | - - 04, 12 - 19 19 03 - - - - - | 8012-1572 8012-155 8012-0985 8012-1640 |

* Notes > See last page

Data Sheet Model ED 260

BINDER

| Designation | Description | * | ArtNo. |
|--------------------------------------|--|---|-----------|
| Measurement of air exchange rate | in accordance with ASTM D5374, definition and protocol according to ambient temperature | - | 8012-0195 |
| pH-neutral detergent | concentrated, for gentle remove of residual contaminants; 1 kg | - | 1002-0016 |
| Pt 100 temperature sensor | additional flexible Pt 100, interior, for displaying the temperature on the unit display | - | 8012-1619 |
| Rack | chrome plated | - | 6004-0177 |
| | stainless steel | - | 6004-0161 |
| Rack, heavy load | Stainless steel, max. load per rack 70 kg | _ | 6004-0203 |
| Rubber pads | set anti-slip feet | _ | 8012-1887 |
| Shelf, perforated | Stainless steel | _ | 6004-0193 |
| Table on castors | stable cart, casters with locking brakes, dimensions: W 1,300 x D 800 x H 780 mm | _ | 9051-0019 |
| Viewing window and interior lighting | viewing window (triple insulating glass) in door, 370 x 370 mm, and 15 W interior | | |
| | 230 V option model | - | 8012-1064 |
| | 240 V option model | _ | 8012-1065 |

* Notes > See last page

SERVICES

| Designation | Description | * | ArtNo. |
|--|---|-------------------|-----------|
| Installation services | | | |
| Installation | and set up of unit at operating location, connect to existing connections | 13, 18 | DL10-0100 |
| Instruction | unit function instructions for operation and programming of the controller | 18 | DL10-0500 |
| Preventive maintenance | | | |
| Preventive maintenance | Executive of equipment inspection according to maintenance plan | 14, 18 | DL20-0200 |
| Calibration services | | | |
| Calibration temperature incl. certificate | including certificate, one measuring point in center of chamber at specified temperature | 14, 16, 17, 18 | DL30-0101 |
| Measurement of air exchange rate | including certificate (in accordance with ASTM D5374) | 14, 16, 17, 18 | DL33-0000 |
| 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 | DL40-0100 |
| 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 | 8012-0761 |
| 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 | 8012-0942 |
| Warranty service | | | |
| Extension of the warranty from 2 to 3 years | beginning with the date of delivery, wearing parts are not included | _ | DL00-2041 |
| Extension of the warranty from 2 to 5 years | beginning with the date of delivery, wearing parts are not included | - | DL00-2042 |

* 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. 01
- 02 UL mark is not granted when this option is used.
- Heat resistant only to max. 200 °C. 03 Only available on units rated for 230 V. 04
- 06 Heating-up time may increase as a result of the lower heat conductivity. 07 The additional heat input may affect the temperature behavior.
- Not in conjunction with the optional access port, door with window and interior lighting. 09
- 10 11 12 Not available on 23-liter units.
- Not available on 23- or 53-liter units
- Only available on units rated for 230 V or 400 V.
- 13 Installation and connections take place at unit location; transport within the company only upon consultation.
- 14 We recommend a BINDER service contract to cover unit inspections, calibrations and validations.
- 15 OQ according to Yellow Paper = completed factory validation documentation of all OQ checklists.
- Sensor calibration is performed in an accredited calibration laboratory. 16
- 17
- Calibration is performed according to the BINDER factory standard. Quoted prices do not include travel costs. Please refer to the chapter on BINDER Service for travel costs for your region. Quoted prices for services performed in Switzerland do not 18 include a country-specific added fee (available on request).
- For additional accessories, refer to the Process documentation chapter. 19
- 20 When ordering IQ/OQ qualification folders and associated IQ/OQ execution on one order, we offer a 15 % discount for the item of the IQ/OQ folder.

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

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