

# 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<sup>™</sup> 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

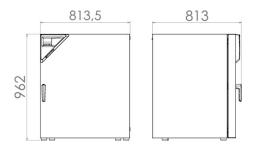


### TECHNICAL DATA

Description	ED260-230V1	ED260UL-240V <sup>1</sup>
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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