# 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 ٠



Model 260



Model 260

#### **IMPORTANT FEATURES**

- Temperature range: +5°C above ambient temperature to +300 °C
- ٠ Up to 30% lower energy consumption compared to conventional units on the • 2 chrome-plated racks market
- High temperature accuracy thanks to APT.line<sup>™</sup> technology ٠
- Natural convection
- Controller with LCD display •

- Electromechanical control of the exhaust air flap
- 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]	Power supply - unit fuse	Plug*	Version	Model version	ArtNo.
Model ED 260					
	230 V 1~ 50/60 Hz -12,5 A	CEE 7/7	Standard	ED260-230V	9010-0339
255	240 V 1~ 60 Hz -16,0 A	NEMA 6-20	Standard	ED260-230V ED260UL-240V	9010-0340



## TECHNICAL DATA

Data

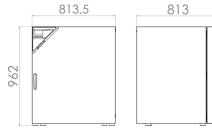
Data		
Designation	ED260-230V	ED260UL-240V
Article Number	9010-0339	9010-0340
Option model	Standard	Standard
Performance Data Temperature		
Temperature range	+5 °C above ambient temperature to 300 °C	+5 °C above ambient temperature to 300 °C
Temperature uniformity at 150°C	1.8 ± K	1.8 ± K
Temperature fluctuation at 150°C	0.8 ± K	0.8 ± K
Heating up time to 150°C	50 min	50 min
Recovery time after door was opened for 30 s at 150°C	20 min	20 min
Air change data		
Air change rate at 100°C	3 x/h	3 x/h
Electrical data		
Rated Voltage	230 V	240 V
Power frequency	50/60 Hz	60 Hz
Nominal power	2,25 kW	2,45 kW
Unit fuse	12,5 A	16,0 A
Phase (Nominal voltage)	1~	1~
Dimensions and weights		
Interior volume	255 L	255 L
Net weight of the unit (empty)	85 kg	85 kg
Load per rack	40 kg	40 kg
Permitted load	270 kg	270 kg
Wall clearance back	160 mm	160 mm
Wall clearance sidewise	100 mm	100 mm
Housing dimensions not incl. fittings and connections		
Width net	810 mm	810 mm
Height net	940 mm	940 mm
Depth net	760 mm	760 mm
Internal Dimensions		



Interior width610 mm610 mmInterior height760 mm760 mmInterior depth550 mm550 mmUnit doors11Environment-specific dataEnergy consumption at 100°C195 Wh/hEnergy consumption at 150°C355 Wh/hFixtures1	Interior height       760 mm         Interior depth       550 mm         550 mm       550 mm         Unit doors       1         Environment-specific data       1         Energy consumption at 100°C       195 Wh/h         Energy consumption at 150°C       355 Wh/h			
Interior depth550 mmUnit doors1Interior deta1Energy consumption at 100°C195 Wh/hEnergy consumption at 150°C355 Wh/h	Interior depth\$50 mm\$50 mmUnit doors11Environment-specific dataEnergy consumption at 100°C195 Wh/hEnergy consumption at 150°C355 Wh/hFixturesY	Interior width	610 mm	610 mm
Unit doors     1       Environment-specific data     1       Energy consumption at 100°C     195 Wh/h       Energy consumption at 150°C     355 Wh/h	Unit doors1Environment-specific dataEnergy consumption at 100°C195 Wh/hEnergy consumption at 150°C355 Wh/hFixtures1000000000000000000000000000000000000	Interior height	760 mm	760 mm
Environment-specific data         Energy consumption at 100°C       195 Wh/h         Energy consumption at 150°C       355 Wh/h	Environment-specific data           Energy consumption at 100°C         195 Wh/h         195 Wh/h           Energy consumption at 150°C         355 Wh/h         355 Wh/h           Fixtures	Interior depth	550 mm	550 mm
Energy consumption at 100°C     195 Wh/h     195 Wh/h       Energy consumption at 150°C     355 Wh/h     355 Wh/h	Energy consumption at 100°C       195 Wh/h       195 Wh/h         Energy consumption at 150°C       355 Wh/h       355 Wh/h         Fixtures       Y       Y	Unit doors	1	1
Energy consumption at 150°C 355 Wh/h 355 Wh/h	Energy consumption at 150°C 355 Wh/h 355 Wh/h Fixtures	Environment-specific data		
	Fixtures	Energy consumption at 100°C	195 Wh/h	195 Wh/h
Fixtures		Energy consumption at 150°C	355 Wh/h	355 Wh/h
	Number of shelves (std./max.) 2/8 2/8	Fixtures		
Number of shelves (std./max.) 2/8 2/8		Number of shelves (std./max.)	2/8	2/8

All technical data is specified for unloaded units with standard equipment at an ambient temperature of  $\pm 22$  °C  $\pm 3$  °C and a power supply voltage fluctuation of  $\pm 10\%$ . 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	ED 260	*	ArtNo.
	back			
	10 mm	•	01	8012-1282
	30 mm	•	01	8012-0540
	50 mm	•	01	8012-0546
Access port with silicone plug	left			
	10 mm	•	01	8012-1275
	30 mm	•	01	8012-1018
	50 mm	•	01	8012-1022
	100 mm	•	01	8012-1030
	right			
	10 mm	•	01	8012-1268

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Designation	Description	ED 260	*	ArtNo.
	30 mm	•	01	8012-1017
	50 mm	•	01	8012-1021
	100 mm	•	01	8012-1031
	top			
	10 mm	•	01	8012-1262
	30 mm	•	01	8012-0539
	50 mm	•	01	8012-0545
	100 mm	•	01	8012-1029
Alarm function for overheating	switchable acoustic alarm, with adjustable limit value on the independent temperature safety device. Not in combination with the following option: Door with window	•	-	8012-1635
Analog output 4-20 mA	for temperature values (output not adjustable)	•	02	8012-1623
Calibration certificate, expanded	for temperature; for extending the measurement in center of chamber to include another test temperature	•	-	8012-1115
Calibration certificate, temperature	for temperature, measurement in center of chamber at specified temperature	•	-	8012-1134
	temperature measurement incl. certificate, 9 measuring points at specified temperature	•	-	8012-1551
	temperature measurement incl. certificate, 15- 18 measuring points at specified temperature	•	-	8012-1572
	temperature measurement incl. certificate and 27 measuring points at specified temperature	• .		8012-1593
Class 3.1 independent temperature safety device	with visual alarm (DIN 12880)	• - 8012-0985		8012-0985
Clock	battery-backed	• - 8012-1640		8012-1640
Door gasket	made of FKM, silicone-free	• - 8012-101		8012-1011
Door lock	lockable door handle	• - 8012-16		8012-1664
Ethernet interface	for Multi Management Software APT-COM™	• - 8012-16		8012-1645
Interior lighting	with 27 W light bulb			
	230/240 V option model	• - 8012		8012-1627
Measurement of air exchange rate	in accordance with ASTM D5374, definition and protocol according to ambient temperature	• - 8012-0195		8012-0195
Pt 100 temperature sensor	additional flexible Pt 100, interior, for displaying the temperature on the unit display	• - 8012-1619		8012-1619
Viewing window and interior	Viewing window (triple-glazed insulating glass) 370 x 370 mm in the door and interior lighting 15 W. Not in combination with the following option: Alarm function for overheating			
lighting	230 V option model	•	-	8012-1064

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Designation	Description	ED 260	*	ArtNo.
	240 V option model	•	-	8012-1065

## ACCESSORIES

Designation	Description		*	ArtNo.
	for simple logging and documentation requirements with up to 5 networked units.			
APT-COM™ 4 BASIC-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
APT-COM™ 4 PROFESSIONAL-	convenient unit and user management built on the BASIC edition. Suitable for networking up to 100 units.			
Edition	version 4, PROFESSIONAL edition	•	-	9053-0040
Ethernet interface	for Multi Management Software APT-COM™	•	-	8012-1645
pH-neutral detergent	concentrated, for gentle remove of residual contaminants; 1 kg	•	-	8012-2250
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	•	-	7057-0005
	Hard copy inside folder	•	-	7007-0005
	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
	- Hard copy inside folder	•	-	7007-0001
	max. load per rack 40 kg			
Rack	chrome plated	•	-	8012-2043
	- stainless steel	•	-	8012-2173
	max. load per rack 70 kg			
ack, heavy load Stainless steel •		•	-	8012-2187
Rubber pads	set anti-slip feet	•	-	8012-2030
	max. load per rack 40 kg			
Shelf, perforated	- Stainless steel	•	-	8012-2181

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Designation	Description	ED 260	*	ArtNo.
Table on castors	stable cart, casters with locking brakes, dimensions: W 1,300 x D 800 x H 780 mm	•	-	9051-0019

## SERVICES

Designation	Description	*	ArtNo.
Calibration services			
Colibertian codificate temperature	Calibration of one (1) test temperature specified by the user in center of chamber, including certificate	05	DL30-0110
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	05	DL30-0102
Measurement of air exchange rate	including certificate (in accordance with ASTM D5374)	05	DL33-0000
Temperature measurement, 9 measuring points	Temperature measurement with 9 measuring points with a set value specified by the user, including certificate	05	DL30-0109
Temperature measurement, 18 measuring points	Temperature measurement with 18 measuring points with a set value specified by the user, including certificate	05	DL30-0118
Temperature measurement, 27 measuring points	Temperature measurement with 27 measuring points with a set value specified by the user, including certificate	05	DL30-0127
Installation services			
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
Maintenance contracts			
BRONZE 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	05	DL20-0720
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 test temperature specified by the user in the center of the usable space, including certificate	05	DL20-0915
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	DL20-0815
Maintenance services			
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	DL20-0601
Validation services			
Execution of IQ/OQ	Execution of IQ/OQ in accordance with qualification folder	05	DL40-0100
Execution of IQ/OQ/PQ	Execution of IQ/OQ/PQ in accordance with qualification folder	05	DL44-0500
Warranty service			

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Designation	Description	*	ArtNo.
1-year warranty extension	The warranty is extended by 1 year from the delivery date, wear parts are excluded	05	DL50-0010



## 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.
- O5 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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