

Model FD 260 | Drying and heating chambers with forced convection

A BINDER FD series Avantgarde.Line heating oven is always used when fast drying and sterilization is required. Thanks to its fully homogeneous temperature distribution, quick dynamics and powerful fan, this heating oven saves valuable time.

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

MAIN FEATURES

- Temperature range: ambient temperature plus 10 °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
- Forced 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 FD 260				
259	230 V 1~ ph 50/60 Hz	Standard	FD260-230V	9010-0309
	240 V 1~ ph 60 Hz	Standard	FD260UL-240V	9010-0310

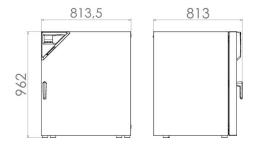


TECHNICAL DATA

Description	FD260-230V ¹	FD260UL-240V1
Article Number	9010-0309	9010-0310
Performance Data Temperature		
Temperature range 10 °C above ambient temperature to [°C]	300	300
Temperature variation at 150 °C [± K]	1.9	1.9
Temperature fluctuation at 150 °C [± K]	0.4	0.4
Heating-up time to 150 °C [min]	19	19
Recovery time after 30 seconds door open at 150 °C [min]	5	5
Electrical data		
Rated Voltage [V]	230	240
Power frequency [Hz]	50/60	60
Nominal power [kW]	2.3	2.5
Unit fuse [A]	12.5	16
Phase (Nominal voltage)	1~	1~
Internal Dimensions		
Depth [mm]	515	515
Height [mm]	780	780
Width [mm]	650	650
Housing dimensions not incl. fittings and connections		
Width net [mm]	810	810
Height net [mm]	965	965
Depth net [mm]	825	825
Measures		
Wall clearance back [mm]	160	160
Wall clearance sidewise [mm]	100	100
Interior volume [L]	259	259
Net weight of the unit (empty) [kg]	85	85
permitted load [kg]	270	270
Load per rack [kg]	40	40
Doors		
Unit doors	1	1
Environment-specific data		
Energy consumption at 150 °C [Wh/h]	410	410
Sound-pressure level [dB(A)]	43	43
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. Technical data refers to 100 % fan speed. 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.
	left		
	10 mm	01	8012-1276
	30 mm	01	8012-1016
	50 mm	01	8012-1020
	100 mm	01	8012-102
	right		
	10 mm	01	8012-126
Access port with silicone blug	30 mm	01	8012-101
Jug	50 mm	01	8012-101
	100 mm	01	8012-102
	top		
	10 mm	01	8012-126
	30 mm	01	8012-136
	50 mm	01	8012-138
	100 mm	01, 10	8012-167
Analog output 4-20 mA	for temperature values (output not adjustable)	02	8012-162
APT-COM™ 4 BASIC-	for simple logging and documentation requirements with up to 5 networked units.		
Edition	version 4, BASIC edition	19	9053-003
APT-COM™ 4 GLP-	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.		
Edition	version 4, GLP edition	19	9053-004
APT-COM™ 4	convenient unit and user management built on the BASIC edition. Suitable for networking up to 100 units.		
PROFESSIONAL- Edition	version 4, PROFESSIONAL edition	19	9053-004
Calibration certificate, expanded	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	-	8012-113
Calibration certificate,	temperature measurement incl. certificate and 27 measuring points at specified temperature	-	8012-159
emperature	temperature measurement incl. certificate, 15- 18 measuring points at specified temperature	-	8012-157
	temperature measurement incl. certificate, 9 measuring points at specified temperature	_	8012-155
Class 3.1 independent emperature safety device	with visual alarm (DIN 12880)	04, 12	8012-1643
Clock	battery-backed	-	8012-164
Data Logger Kit	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	19	8012-071
Data Logger Software	LOG ANALYZE software kit, configuration and evaluation software for all BINDER Data Logger Kits (incl. USB data cable)	19	8012-082
Door gasket	made of FKM, silicone-free	03	8012-165
Door lock	lockable door handle	-	8012-166
Ethernet interface	for Multi Management Software APT-COM™	-	8012-098
Gas-tight option model	Incl. additional measures for the greatest possible impermeability to gas; not in conjunction with access port or interior lighting option	09	8012-168
HEPA air filter	On fresh air supply for unit; filter classification H14 (acc. to. EN 1822-1:2009, > 99.995% at 0.3 μm)	_	8012-105
nert gas connection	With gas inlet and outlet, Ø 10 mm, incl. additional measures for the greatest possible impermeability to gas; not in conjunction with access port or interior lighting option	-	8012-169
nner chamber, einforced	max. total load 300 kg	-	8012-105
	with lid made from 18/8 stainless steel, stackable, dimensions: 230 x 133 x 45 mm	_	4022-012
nstrument tray	with lid made from 18/8 stainless steel, stackable, dimensions: 200 x 100 x 40 mm	_	4022-012
	with 15 W light bulb		.522 012
nterior lighting	120 V option model	_	8012-162
		-	0012-102

Data Sheet Model FD 260

BINDER

Designation	Description	*	ArtNo.
Measurement of air exchange rate	in accordance with ASTM D5374, definition and protocol according to ambient temperature	-	8012-1195
Overheating alarm	audible, can be switched off, adjustable limit on the independent temperature safety device	_	8012-1636
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	-	8012-1620
D 1	chrome plated	-	6004-0169
Rack	stainless steel	_	6004-0153
Rack, heavy load	Stainless steel, max. load per rack 70 kg	_	6004-0200
Rubber pads	set anti-slip feet	-	8012-1887
Shelf, perforated	Stainless steel	_	6004-0185
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	-	8012-1708
	240 V option model	-	8012-1710

* Notes > See last page

SERVICES

Designation	Description	*	ArtNo.
nstallation services			
nstallation	and set up of unit at operating location, connect to existing connections	13, 18	DL10-0100
nstruction	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
Femperature measurement 18 neasuring points	including certificate, 18 measuring points at specified temperature	14, 16, 17, 18	DL30-0118
Femperature measurement 27 neasuring points	including certificate, 27 measuring points at specified temperature	14, 16, 17, 18	DL30-0127
Femperature measurement 9 neasuring points	including certificate, 9 measuring points at specified temperature	14, 16, 17, 18	DL30-0109
/alidation 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	8012-0792
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	8012-0943
Narranty service			
Extension of the warranty from 2 to 3 rears	beginning with the date of delivery, wearing parts are not included	_	DL00-3041
Extension of the warranty from 2 to 5 vears	beginning with the date of delivery, wearing parts are not included	-	DL00-3042

* Notes > See last page



Pricing on any accessories shown can be found by keying the part number into the search box on our website. The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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