

Model BD 260 | Incubators Avantgarde.Line with natural convection

The BD Avantgarde. Line series is specially designed for gentle incubation of organisms, as well as conditioning of heat-sensitive media. The new design of the units and the homogeneous temperature distribution ensure the very best results.

BENEFITS

- · Excellent temporal and spatial temperature accuracy
- · High process reliability
- · 100 °C disinfection routine



Model 260



Model 260

MAIN FEATURES

- Temperature range: ambient temperature plus 5 °C to 100 °C
- High temperature accuracy thanks to APT.line™ technology
- Natural convection
- Controller with LCD display
- · Electromechanical control of the exhaust air flap
- · Inner door made of tempered safety glass

- · 2 chrome-plated racks
- Class 3.1 integrated independent temperature safety device (DIN 12880) with visual alarm
- · Ergonomic handle design
- · USB port for recording data

ORDERING INFORMATION

Interior volume [cu.ft.]	Voltage	Option model	Version	ArtNo.
Model BD 260				
8.9	230 V 1 ph 50/60 Hz	Standard	BD260-230V	9010-0329
	120 V 1 ph 60 Hz	Standard	BD260UL-120V	9010-0330

TECHNICAL DATA

Description	BD260-230V1	BD260UL-120V ¹
Article Number	9010-0329	9010-0330
Performance Data Temperature		
Temperature range 5 °C above ambient temperature to [°C]	100	100
Temperature variation at 37 °C [± K]	0.3	0.3
Temperature fluctuation at 37 °C [± K]	0.2	0.2
Heating-up time to 37 °C [min]	60	60
Recovery time after 30 seconds door open at 37 °C [min]	16	16

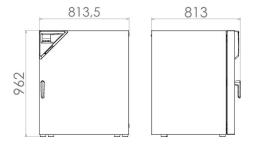
¹ All technical data is specified for unloaded units with standard equipment at an ambient temperature of +22 °C ±3 °C and a power supply voltage fluctuation of ±10%. The temperature data is determined to BINDER factory standard following DIN 12880, observing the recommended wall clearances of 10 % of 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	BD260-230V ¹	BD260UL-120V ¹	
Article Number	9010-0329	9010-0330	
Electrical data			
Rated Voltage [V]	230	120	
Power frequency [Hz]	50/60	60	
Nominal power [kW]	0.85	0.95	
Unit fuse [A]	8	12.5	
Phase (Nominal voltage) [ph]	1	1	
Outer dimensions			
Width net [mm]	810	810	
Height net [mm]	965	965	
Depth net [mm]	760	760	
Doors			
Unit doors	1	1	
Internal Dimensions			
Width [mm]	610	610	
Height [mm]	760	760	
Depth [mm]	545	545	
Measures			
Interior volume [L]	253	253	
Net weight of the unit (empty) [kg]	85	85	
permitted load [kg]	270	270	
Load per rack [kg]	40	40	
Environment-specific data			
Energy consumption at 37 °C [Wh/h]	40	40	
Fixtures			
Number of shelves (std./max.)	2/8	2/8	

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DIMENSIONS incl. fittings and connections [mm]





OPTIONS AND ACCESSORIES

Description	*	ArtNo.
back		
10 mm	01	8012-0390
30 mm	01	8012-0397
50 mm	01	8012-0399
left		
10 mm	01	8012-0388
30 mm	01	8012-0047
50 mm	01	8012-0051
right		
10 mm	01	8012-0387
30 mm	01	8012-0046
50 mm	01	8012-0050
top		
10 mm	01	8012-0386
30 mm	01	8012-0045
50 mm	01	8012-0049
100 mm	01, 10	8012-0053
for temperature values (output not adjustable)	02	8012-094
for temperature; for extending the measurement in center of chamber to include another test temperature	-	8012-1110
for temperature, measurement in center of chamber at specified temperature	_	8012-1129
temperature measurement incl. certificate and 27 measuring points at specified temperature	_	8012-092 ⁻
temperature measurement incl. certificate, 15- 18 measuring points at specified temperature	_	8012-0918
temperature measurement incl. certificate, 9 measuring points at specified temperature	_	8012-091
Cart – stable cart, casters with locking brakes, dimensions: W 1,300 x D 800 x H 780 mm	_	9051-0019
battery-backed	_	8012-098
T 220: For continuous temperature logging from -90 °C to 220 °C. The kit includes 1 data logger, Pt 100 sensor with 2 m extension cable and 1 magnetic fixture for mounting to the BINDER unit	19	8012-0715
LOG ANALYZE software kit, configuration and evaluation software for all BINDER Data Logger Kits (incl. USB data cable)	19	8012-082
lockable door handle	-	8012-102
for communication software	_	8012-1025
for communication software		8012-098
for communication software with 15 W light bulb 120 V option model		8012-098 8012-163
for communication software with 15 W light bulb	-	8012-0986 8012-1636 8012-0969
for communication software with 15 W light bulb 120 V option model 230 V option model Waterproof, switched flush-mounting box (CA3GD) for nominal voltage in unit interior, with cover and corresponding	- - -	8012-0986 8012-1636 8012-0969 8012-0986
for communication software with 15 W light bulb 120 V option model 230 V option model Waterproof, switched flush-mounting box (CA3GD) for nominal voltage in unit interior, with cover and corresponding plug (nominal voltage; max. 500 W; max. 90 °C; protection class IP67)	- - - 07	8012-0986 8012-1636 8012-0968 8012-0975
for communication software with 15 W light bulb 120 V option model 230 V option model Waterproof, switched flush-mounting box (CA3GD) for nominal voltage in unit interior, with cover and corresponding plug (nominal voltage; max. 500 W; max. 90 °C; protection class IP67) audible, can be switched off, adjustable limit on the independent temperature safety device	- - - 07	8012-0986 8012-1636 8012-0968 8012-0975 1002-0016
for communication software with 15 W light bulb 120 V option model 230 V option model Waterproof, switched flush-mounting box (CA3GD) for nominal voltage in unit interior, with cover and corresponding plug (nominal voltage; max. 500 W; max. 90 °C; protection class IP67) audible, can be switched off, adjustable limit on the independent temperature safety device concentrated, for gentle remove of residual contaminants; 1 kg additional flexible Pt 100, interior, for displaying the temperature on the unit display	- - - 07 -	8012-0986 8012-1636 8012-0968 8012-0978 1002-0016 8012-0946
for communication software with 15 W light bulb 120 V option model 230 V option model Waterproof, switched flush-mounting box (CA3GD) for nominal voltage in unit interior, with cover and corresponding plug (nominal voltage; max. 500 W; max. 90 °C; protection class IP67) audible, can be switched off, adjustable limit on the independent temperature safety device concentrated, for gentle remove of residual contaminants; 1 kg additional flexible Pt 100, interior, for displaying the temperature on the unit display Stainless steel, max. load per rack 70 kg	- - 07 - -	8012-098(8012-096) 8012-098(8012-097) 1002-001(8012-094) 6004-0203
for communication software with 15 W light bulb 120 V option model 230 V option model Waterproof, switched flush-mounting box (CA3GD) for nominal voltage in unit interior, with cover and corresponding plug (nominal voltage; max. 500 W; max. 90 °C; protection class IP67) audible, can be switched off, adjustable limit on the independent temperature safety device concentrated, for gentle remove of residual contaminants; 1 kg additional flexible Pt 100, interior, for displaying the temperature on the unit display	- - 07 - - -	
	back 10 mm 30 mm 50 mm left 10 mm 30 mm 50 mm right 10 mm 30 mm 50 mm right 10 mm 30 mm 50 mm for mm 30 mm 50 mm for temperature values (output not adjustable) for temperature, for extending the measurement in center of chamber to include another test temperature for temperature, measurement in center of chamber at specified temperature temperature measurement incl. certificate and 27 measuring points at specified temperature temperature measurement incl. certificate, 15- 18 measuring points at specified temperature temperature measurement incl. certificate, 9 measuring points at specified temperature temperature measurement incl. certificate, 9 measuring points at specified temperature Cart – stable cart, casters with locking brakes, dimensions: W 1,300 x D 800 x H 780 mm battery-backed T 220: For continuous temperature logging from -90 °C to 220 °C. The 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)	back 10 mm 01 30 mm 01 50 mm 01 left 01 10 mm 01 30 mm 01 50 mm 01 10 mm 01 30 mm 01 50 mm 01 10 mm 01 30 mm 01 50 mm 01 10 mm 01 30 mm 01 50 mm 01 50 mm 01 100 mm 01 for temperature values (output not adjustable) 02 for temperature, for extending the measurement in center of chamber to include another test temperature - temperature, measurement incl. certificate and 27 measuring points at specified temperature - temperature measurement incl. certificate, 15- 18 measuring points at specified temperature - temperature measurement incl. certificate, 9 measuring points at specified temperature - temperature measurement incl. certificate, 9 measuring points at specified temperature - temperature beasurement incl. certificate, 9

^{*} Notes > See last page



Designation	Description		ArtNo.
Software	APT-COM™ communications software		
	version 2 to 3, GLP edition	19	9053-0016
	version 3, BASIC edition	19	9053-0014
	version 3, GLP edition	19	9053-0015
	version 3, STANDARD edition	19	9053-0013
	APT-COM™ communications software, price: for free		
	version 3, GLP DEMO Edition	19	9053-0008
* Notos > Soo lost pag	70		

^{*} 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	DL10-0400
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
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	8012-0870
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, 20	8012-0958
Warranty service			
Extension of the warranty from 2 to 3 years	beginning with the date of delivery, wearing parts are not included	-	DL01-6041
Extension of the warranty from 2 to 5 years	beginning with the date of delivery, wearing parts are not included	-	DL01-6042

^{*} 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.
- Heating-up time may increase as a result of the lower heat conductivity.
- The additional heat input may affect the temperature behavior.
- Not in conjunction with the optional access port, door with window and interior lighting. 09
- Not available on 23-liter units.
- Not available on 23- or 53-liter units.
- 10 11 12 Only available on units rated for 230 V or 400 V.
- Installation and connections take place at unit location; transport within the company only upon consultation.
- We recommend a BINDER service contract to cover unit inspections, calibrations and validations.
- OQ according to Yellow Paper = completed factory validation documentation of all OQ checklists.
- Sensor calibration is performed in an accredited calibration laboratory.
- 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 include a country-specific added fee (available on request).
- For additional accessories, refer to the Process documentation chapter.
- 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.