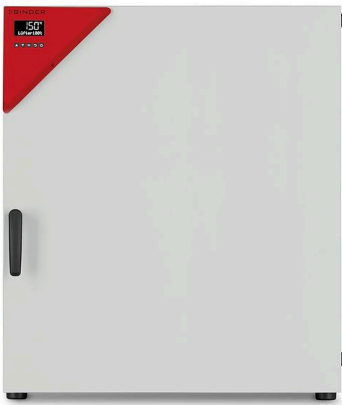


# Model FED 260 | Drying and heating chambers with forced convection and enhanced timer functions

BINDER heating chambers of the FED Avantgarde.Line series provide almost unlimited capacity and are particularly adaptable. With advanced timing functions and a controllable fan, temperature and convection conditions are easily controlled.

## 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: +10 °C above ambient temperature to +300 °C
- Up to 30% lower energy consumption compared to conventional units on the market
- High temperature accuracy thanks to APT.line™ technology
- Adjustable fan speed
- Controller with LCD display and enhanced time functions
- Electromechanical control of the exhaust air flap
- 2 chrome-plated racks
- Units up to 115 liters are stackable
- Class 2 integrated independent adjustable temperature safety device (DIN 12880) with visual alarm
- Ergonomic handle design
- Ethernet interface
- USB port for recording data

## ORDERING INFORMATION

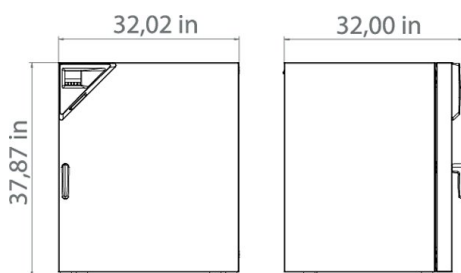
Interior volume [cu.ft.]	Voltage	Option model	Version	Art.-No.
9.1	230 V 1~ 50/60 Hz	Standard	FED260-230V	9010-0299
	240 V 1~ 60 Hz	Standard	FED260UL-240V	9010-0300

## TECHNICAL DATA

Description	FED260-230V <sup>1</sup>	FED260UL-240V <sup>1</sup>
Article Number	9010-0299	9010-0300
Performance Data Temperature		
Temperature range +10 °C above ambient temperature to [°C]	300	300
Temperature variation at 150 °C [± K]	1.6	1.6
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
Tabellen		
Air change (approx.) at 100 °C [x/h]	9	9
Electrical data		
Nominal 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~
Measures		
Interior volume [cu.ft.]	9.1	9.1
Net weight of the unit (empty) [lbs]	185	185
permitted load [lbs]	595	595
Load per rack [lbs]	88	88
Wall clearance back [in]	6.3	6.3
Wall clearance sidewise [in]	3.94	3.94
Internal Dimensions		
Interior width [in]	25.61	25.61
Interior height [in]	30.73	30.73
Interior depth [in]	20.29	20.29
Doors		
Unit doors	1	1
Housing dimensions not incl. fittings and connections		
Width net [in]	31.91	31.91
Height net [in]	37.04	37.04
Depth net [in]	29.94	29.94
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

Designation	Description	*	Art.-No.
Access port with silicone plug	left		
	10 mm	01	8012-1278
	30 mm	01	8012-1655
	50 mm	01	8012-1657
	100 mm	01	8012-1669
	right		
	10 mm	01	8012-1271
	30 mm	01	8012-1654
	50 mm	01	8012-1656
	100 mm	01	8012-1670
	top		
	10 mm	01	8012-1264
	30 mm	01	8012-1365
	50 mm	01	8012-1381
	100 mm	01	8012-1672
Alarm function for overheating	Switchable acoustic alarm, with adjustable limit value on the independent temperature safety device	–	8012-1637
Analog output 4-20 mA	for temperature values (output not adjustable)	02	8012-1625
Calibration certificate, expanded	for temperature; for extending the measurement in center of chamber to include another test temperature	–	8012-1118
Calibration certificate, temperature	for temperature, measurement in center of chamber at specified temperature	–	8012-1137
	temperature measurement incl. certificate and 27 measuring points at specified temperature	–	8012-1596
	temperature measurement incl. certificate, 15- 18 measuring points at specified temperature	–	8012-1575
	temperature measurement incl. certificate, 9 measuring points at specified temperature	–	8012-1554
Class 3.1 independent temperature safety device	with visual alarm (DIN 12880)	–	8012-1644
Clock	battery-backed	–	8012-1642
Door gasket	made of FKM, silicone-free	–	8012-1653
Door lock	lockable door handle	–	8012-1666
Gas-tight option model	Incl. additional measures for the greatest possible impermeability to gas; not in conjunction with access port or interior lighting option	–	8012-1688
HEPA air filter	On fresh air supply for unit; filter classification H14 (acc. to. EN 1822-1:2009, > 99.995% at 0.3 µm); not in conjunction with reinforced heating output, reinforced fan	–	8012-1697
Inert 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	–	8012-1694
Inner chamber, reinforced	max. total load 300 kg	–	8012-1715
Interior lighting	with 15 W light bulb		
	230/240 V option model	–	8012-1629
Measurement of air exchange rate	in accordance with ASTM D5374, definition and protocol according to ambient temperature	–	8012-1197

\* Notes › See last page

Designation	Description	*	Art.-No.
<b>Pt 100 temperature sensor</b>	additional flexible Pt 100, interior, for displaying the temperature on the unit display	–	8012-1621
<b>Viewing window and interior lighting</b>	viewing window (triple insulating glass) in door, 370 x 370 mm, and 15 W interior		
	230 V option model	–	8012-1709
	240 V option model	–	8012-1711

\* Notes › See last page

## ACCESSORIES

Designation	Description	*	Art.-No.
<b>APT-COM™ 4</b>	Multi Management Software APT-COM™		
	version 4, GLP edition	–	9053-0042
	version 4, PROFESSIONAL edition	–	9053-0040
<b>APT-COM™ 4 BASIC-Edition</b>	Multi Management Software APT-COM™ version 4, BASIC edition	–	9053-0039
<b>pH-neutral detergent</b>	concentrated, for gentle remove of residual contaminants; 1 kg	–	8012-2250
<b>Qualification documents</b>	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 <sub>2</sub> , O <sub>2</sub> , pressure, depending on unit		
	Digital in PDF format	–	7057-0001
	Hard copy inside folder	–	7007-0001
	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 <sub>2</sub> , O <sub>2</sub> – or pressure, depending on unit		
	Digital in PDF format	–	7057-0005
	Hard copy inside folder	–	7007-0005
<b>Rack</b>	chrome plated	–	8012-2042
	stainless steel	–	8012-2169
<b>Rack, heavy load</b>	Stainless steel, max. load per rack 70 kg	–	8012-2184
<b>Rubber pads</b>	set anti-slip feet	–	8012-2030
<b>Shelf, perforated</b>	Stainless steel	–	8012-2177
<b>Table on castors</b>	stable cart, casters with locking brakes, dimensions: W 1,300 x D 800 x H 780 mm	–	9051-0019

\* Notes › See last page

## SERVICES

Designation	Description	*	Art.-No.
Maintenance services			
Installation services			
Calibration services			
Validation services			
Warranty service			
<b>BRONZE 3-year maintenance contract</b>	Maintenance service as contractually agreed, visual inspection of mechanical and electrical components, check of control response, 20% discount on spare parts	05	DL20-0710
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
<b>GOLD 3-year maintenance contract</b>	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	DL20-0910
<b>Maintenance</b>	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	DL20-0200
<b>Measurement of air exchange rate</b>	including certificate (in accordance with ASTM D5374)	03, 04, 05	DL33-0000

\* Notes › See last page

Designation	Description	*	Art.-No.
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	DL20-0810
Temperature calibration	Calibration of one (1) test temperature specified by the user in center of chamber, including certificate	03, 04, 05	DL30-0101
	Extension of calibration of one (1) additional test temperature specified by the user in the center of the usable space, including certificate	03, 04, 05	DL30-0102
Temperature measurement, 18 measuring points	Temperature measurement with 18 measuring points with a set value specified by the user, including certificate	03, 04, 05	DL30-0118
Temperature measurement, 27 measuring points	Temperature measurement with 27 measuring points with a set value specified by the user, including certificate	03, 04, 05	DL30-0127
Temperature measurement, 9 measuring points	Temperature measurement with 9 measuring points with a set value specified by the user, including certificate	03, 04, 05	DL30-0109
Unit installation	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
Warranty extension from 2 to 3 years	The warranty is extended by 1 year from the delivery date, wear parts are excluded	–	DL50-0010

\* Notes › See last page

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.
- 03    Sensor calibration is performed in an accredited calibration laboratory.
- 04    Calibration is performed according to the BINDER factory standard.
- 05    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).

**BINDER GmbH**  
Tuttlingen, Germany  
TEL +49 7462 2005 0  
FAX +49 7462 2005 100  
info@binder-world.com  
www.binder-world.com

**BINDER Asia Pacific (Hong Kong) Ltd.**  
Kowloon, Hong Kong, P.R. China  
TEL +852 39070500  
FAX +852 39070507  
asia@binder-world.com  
www.binder-world.com

**BINDER Environmental Testing  
Equipment (Shanghai) Co., Ltd.**  
Shanghai, P.R. China  
TEL +86 21 685 808 25  
FAX +86 21 685 808 29  
china@binder-world.com  
www.binder-world.com

**BINDER Inc.**  
Bohemia, NY, USA  
TEL +1 631 224 4340  
FAX +1 631 224 4354  
usa@binder-world.com  
www.binder-world.us