



Model FP 260 | Drying and heating chambers with forced convection and program functions

A BINDER material test chamber with mechanical convection of the FP series provides reliably short drying times and particularly fast heating — even for chambers under full loads.

BENEFITS

- Uniform drying conditions thanks to APT.line™ technology
- Identical test conditions throughout the chamber interior independent of sample size and quantity
- · Outstanding thermal insulation saves operation costs
- · Advanced programming options



Model 260



Model 260

MAIN FEATURES

- Temperature range: +10 °C above ambient temperature up to +300 °C
- High temperature accuracy thanks to APT.line $^{\text{TM}}$ technology
- Adjustable fan speed
- · Controller with interval and real-time programming
- · Electromechanical control of the exhaust air flap
- 2 chrome-plated racks

- Units up to 115 liters are stackable
- Class 2 independent adjustable temperature safety device (DIN 12880) and class 3.1 independent temperature safety device (DIN 12880) with visual/acoustic alarm available for selection on the controller
- Ergonomic handle design
- Computer interface: Ethernet
- Internal data logger, measured values can be read out in open format via USB

ORDERING INFORMATION

Interior volume [L]	Voltage	Option model	Version	ArtNo.
0.50	230 V 1~ ph 50/60 Hz	Standard	FP260-230V	9010-0365
259	240 V 3~ ph 60 Hz	Standard	FP260UL-240V 901	9010-0369



TECHNICAL DATA

Description	FP260-230V1	FP260UL-240V ¹
Article Number	9010-0365	9010-0369
Performance Data Temperature		
Temperature range +10 °C above ambient temperature to [°C]	300	300
Temperature variation at 150 °C [± K]	1.7	1.7
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]	6	6
Tabellen		
Air change (approx.) at 100 °C [x/h]	9	9
Electrical data		
Rated Voltage [V]	230	240
Power frequency [Hz]	50/60	60
Nominal power [kW]	2.5	2.5
Unit fuse [A]	16	3 X 16
Phase (Nominal voltage)	1~	3~
Measures		
Interior volume [L]	259	259
Net weight of the unit (empty) [kg]	96	96
Permitted load [kg]	270	270
Load per rack [kg]	40	40
Wall clearance back [mm]	160	160
Wall clearance sidewise [mm]	100	100
Internal Dimensions		
Width [mm]	650	650
Height [mm]	780	780
Depth [mm]	512	512
Doors		
Unit doors	1	1
Housing dimensions not incl. fittings and connections		
Width net [mm]	810	810
Height net [mm]	962	962
Depth net [mm]	786	786
Environment-specific data		
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 in accordance 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.



OPTIONS

Designation	Description	*	ArtNo.
	left		
	30 mm	01	8012-2210
	50 mm	01	8012-2213
	100 mm	01	8012-2207
Access port with silicone	right		
	10 mm	01	8012-2206
	30 mm	01	8012-2212
olug	50 mm	01	8012-2215
	100 mm	01	8012-2209
	top		
	10 mm	01	8012-2199
	30 mm	01	8012-2211
	50 mm	01	8012-2214
	100 mm	01	8012-220
Analog output 4-20 mA	for temperature values (output not adjustable)	02	8012-2188
Calibration certificate, expanded	for temperature; for extending the measurement in center of chamber to include another test temperature	-	8012-2231
	for temperature, measurement in center of chamber at specified temperature	-	8012-222
Calibration certificate,	temperature measurement incl. certificate and 27 measuring points at specified temperature	-	8012-222
emperature	temperature measurement incl. certificate, 15- 18 measuring points at specified temperature	-	8012-222
	temperature measurement incl. certificate, 9 measuring points at specified temperature	-	8012-2230
Door gasket	made of FKM, silicone-free	-	8012-223
Door lock	lockable door handle	-	8012-2237
Gas-tight option model	Incl. additional measures for the greatest possible impermeability to gas; not in conjunction with access port or interior lighting option	-	8012-2218
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	-	8012-222
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	-	8012-2197
nner chamber, reinforced	max. total load 300 kg	-	8012-222
	with 15 W light bulb		
nterior lighting	230/240 V option model	-	8012-2190
Measurement of air exchange rate	in accordance with ASTM D5374, definition and protocol according to ambient temperature	-	8012-223:
Pt 100 temperature Sensor	additional flexible Pt 100, interior, for displaying the temperature on the unit display	-	8012-2193
Notes > See last page			

^{*} Notes > See last page

ACCESSORIES

Designation	Description	*	ArtNo.
APT-COM™ 4 BASIC- Edition	for simple logging and documentation requirements with up to 5 networked units.		
	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	convenient unit and user management built on the BASIC edition. Suitable for networking up to 100 units.		
PROFESSIONAL-Edition	version 4, PROFESSIONAL edition	-	9053-0040
pH-neutral detergent	concentrated, for gentle remove of residual contaminants; 1 kg	-	8012-2250

^{*} Notes > See last page



Designation	Description	*	ArtNo.
Qualification documents	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
	$IQ/OQ/PQ$ 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	-	7007-000
- 1	chrome plated	-	8012-2042
Rack	stainless steel	-	8012-2169
Rack accessories	fasteners (1 set of 4) for additional security of racks	-	8012-0531
Rack, heavy load	Stainless steel, max. load per rack 70 kg	-	8012-2184
Rubber pads	set anti-slip feet	-	8012-203
Shelf, perforated	Stainless steel Stainless steel	-	8012-2177
Table on castors	stable cart, casters with locking brakes, dimensions: W 1,300 x D 800 x H 780 mm	_	9051-0019
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^{*} Notes > See last page

SERVICES

Designation	Description	*	ArtNo.
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			
Maintenance services			
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	DL20-0710
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	DL20-0910
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	DL20-0200
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
Calibration services			
Calibration certificate, temperature	Calibration of one (1) test temperature specified by the user in center of chamber, including certificate	03, 04, 05	DL30-0101
campation certificate, temperature	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
Measurement of air exchange rate	including certificate (in accordance with ASTM D5374)	03, 04, 05	DL33-0000
Temperature measurement, 18 neasuring 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

^{*} Notes > See last page



Designation	Description	*	ArtNo.
Validation services			
Execution of IQ/OQ	Execution of IQ/OQ in accordance with qualification folder	05	DL41-0200
Execution of IQ/OQ/PQ	Execution of IQ/OQ/PQ in accordance with qualification folder	05	DL44-0500
Warranty service			
1-year warranty extension	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.
- UL mark is not granted when this option is used. 02
- Sensor calibration is performed in an accredited calibration laboratory. 03
- 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).

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