Model FD 260 | Drying and heating chambers Avantgarde.Line with forced convection

BENEFITS

- Excellent temporal and spatial temperature accuracy
- High energy efficiency
- 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
- 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 independent temperature safety device (DIN 12880) with visual temperature 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~ 50/60 Hz	Standard	FD260-230V	9010-0309
	240 V 1~ 60 Hz	Standard	FD26oUL-24oV	9010-0310

TECHNICAL DATA

Description	FD260-230V	FD26oUL-24oV
Article Number	9010-0309	9010-0310
Performance Data Temperature		
Temperature range 10 °C above ambient temperature to [°C]	300	300
Temperature uniformity at 150 °C [± K]	1.9	1.9

Data Sheet Model FD 260

Description	FD260-230V	FD26oUL-24oV
Article Number	9010-0309	9010-0310
Temperature fluctuation at 150 °C [± K]	0.5	0.5
Heating-up time to 150 °C [min]	20	20
Recovery time after 30 seconds door open at 150 °C [min]	7	7
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~
Measures - Outer dimensions		
Width net [mm]	810	810
Height net [mm]	965	965
Depth net [mm]	760	760
Wall clearance back [mm]	160	160
Wall clearance sidewise [mm]	100	100
Measures - Doors		
Unit doors	1	1
Measures - Internal Dimensions		
Width [mm]	650	650
Height [mm]	780	780
Depth [mm]	515	515
Measures		
Interior volume [L]	259	259
Net weight of the unit (empty) [kg]	87	87
Load per rack [kg]	30	30
Environment-specific data		
Energy consumption at 150 °C	0,42 kW	0,42 kW

OPTIONS AND ACCESSORIES

Designation	Description	*	ArtNo.
	10 mm, left	01	8012-0388
	10 mm, right	01	8012-0387
	10 mm, top	01	8012-0386
	30 mm, left	01	8012-1016
	30 mm, right	01	8012-1015
Access port with silicone	30 mm, top	01	8012-0539
plug	50 mm, left	01	8012-1020
	50 mm, right	01	8012-1019
	50 mm, top	01	8012-0545
	100 mm, left	01	8012-1027
	100 mm, right	01	8012-1028
	100 mm, top	01, 10	8012-1029
Calibration certificate, expanded	each measurement at additional measuring point or testing temperature	-	8012-0022

^{*} Notes > See last page

Designation	Description	*	ArtNo.
	for temperature, measurement in center of chamber at specified temperature	-	8012-003
Calibration certificate,	temperature measurement incl. certificate and 27 measuring points at specified temperature	-	8012-092
Calibration certificate, temperature measurement temperature safety device Clock, battery-backed Real-time clock Data Logger Kit T 350: temperature logging software Door gasket Made of FKM, silicone-free for communication software Instrument tray Interior lighting 120 V option model 230 V option model 230 V option model 230 V option model 230 V option model 250 V option 250 V	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	-	9051-001
temperature safety	with visual alarm (DIN 12880)	04, 12	8012-098
Clock, battery-backed	Real-time clock	-	8012-098
Data Logger Kit	T 350: temperature logging from 0 °C to 350 °C	19	8012-071
	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	8012-1011
Door lock	lockable door handle	-	8012-102
Ethernet interface	for communication software	-	8012-098
Instrument tray	large	-	4022-012
	small	-	4022-012
	with 1x 15 W (not available in combiantion with interior socket)		
Interior lighting	120 V option model	-	8012-097
	230 V option model	-	8012-096
	in accordance with ASTM D5374, definition and protocol according to ambient temperature	-	8012-019
Overheating alarm	audible, can be switched off, adjustable limit on the independent temperature safety device	-	8012-097
pH-neutral detergent	concentrated, for gentle remove of residual contaminants; 1 kg	-	1002-001
Dock	chrome plated	-	6004-016
KdCK	stainless steel	-	6004-015
Rubber pads	set of 4 anti-slip feet, for safe stacking of unit	10	8012-000
Shelf, perforated	stainless steel	-	6004-018
	APT-COM™ communications software		
	version 2 to 3, GLP edition	19	9053-001
	version 3, BASIC edition	19	9053-001
Software	version 3, GLP edition	19	9053-001
	version 3, STANDARD edition	19	9053-001
	APT-COM™ communications software, price: for free		
	version 3, GLP DEMO Edition	19	9053-000
Viewing window	viewing window in door	_	8012-097

^{*} 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	DL100100
Instruction	unit function instructions for operation and programming of the controller	18	DL100400
Preventive maintenance			
Preventive maintenance	Executive of equipment inspection according to maintenance plan	14, 18	DL200200
Calibration services			
Calibration temperature	including certificate, one measuring point in center of chamber at specified temperature	14, 16, 17, 18	DL300101
Measurement of air exchange rate	including certificate (in accordance with ASTM D5374)	14, 16, 17, 18	DL330000

^{*} Notes > See last page

Data Sheet Model FD 260

Designation	Description	*	ArtNo.
Temperature measurement 18 measuring points	including certificate, 18 measuring points at specified temperature	14, 16, 17, 18	DL300118
Temperature measurement 27 measuring points	including certificate, 27 measuring points at specified temperature	14, 16, 17, 18	DL300127
Temperature measurement 9 measuring points	including certificate, 9 measuring points at specified temperature	14, 16, 17, 18	DL300109
Validation services			
Execution of IQ/OQ	in accordance with qualification folder	15, 18, 20	DL400100
Execution of IQ/OQ/PQ	in accordance with customer's requirement, price: on request	15, 18	DL440500
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	8012-094
Warranty service			
Extension of the warranty from 2 to 3 years	beginning with the date of delivery, wearing parts are not included	_	DL003041
Extension of the warranty from 2 to 5 years	beginning with the date of delivery, wearing parts are not included	-	DL003042

^{*} 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.
- 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. 04
- Attention: The pump is delivered separately. The electric connection for the pump (230 V/1~/50 Hz) must be carried out by an authorized electrician. 05
- Heating-up time may increase as a result of the lower heat conductivity.
- The additional heat input may affect the temperature behavior.
- 08
- The pump (packaged separately) is ready for connection.

 Not in conjunction with the optional access port, door with window and interior lighting. 09
- Not available on 23-liter units. 10
- Not available on 23- or 53-liter units. 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 (see the chapter on BINDER Service) 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. 15
- 16
- Calibration is performed according to the BINDER factory standard. 17
- 18 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 both items.

 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.
- ATEX conformity: 21

Pumping chamber (pumped gases): Il 2G IIC T3 X Environment with inert purge gas: II 2G IIB T4 X Environment without inert purge gas: II 3G IIB T4 X

Motor: II 2G Ex d IIB T4 Gb

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