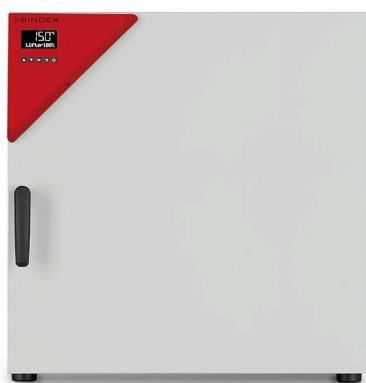


Model ED 115 | Drying and heating chambers with gravity convection

The strengths of a BINDER ED series drying chamber include routine drying and sterilization tasks up to 300 °C. Thanks to the natural convection, all thermal processes which use this drying chamber are highly efficient. The ED series ensures fast, uniform drying.

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 115



Model 115

MAIN FEATURES

- Temperature range: ambient temperature plus 5 °C to 300 °C
- High temperature accuracy thanks to APT.line™ technology
- Gravity convection
- Controller with LCD display
- Electromechanical control of the exhaust air flap
- 2 chrome-plated racks
- Stackable
- Class 2 independent temperature safety device (DIN 12880) with visual temperature alarm
- Ergonomic handle design
- USB port for recording data

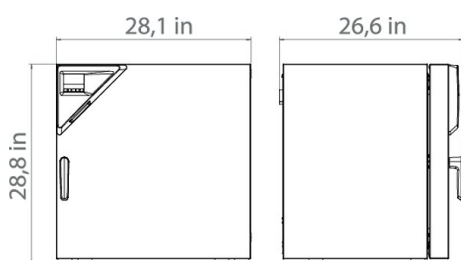
ORDERING INFORMATION

Interior volume [cu.ft.]	Voltage	Option model	Version	Art.-No.
4	230 V 1~ 50/60 Hz	Standard	ED115-230V	9010-0335
	120 V 1~ 60 Hz	Standard	ED115UL-120V	9010-0336

TECHNICAL DATA

Description	ED115-230V ¹	ED115UL-120V ¹
Article Number	9010-0335	9010-0336
Performance Data Temperature		
Temperature range +5 °C above ambient temperature to	300 °C	300 °C
Temperature variation at 150 °C [± K]	1.5	1.5
Temperature fluctuation at 150 °C [± K]	0.4	0.4
Heating-up time to 150 °C [min]	45	45
Recovery time after 30 seconds door open at 150 °C [min]	16	16
Electrical data		
Rated Voltage [V]	230	120
Power frequency [Hz]	50/60	60
Nominal power [kW]	1.25	1.35
Unit fuse [A]	6.3	12.5
Phase (Nominal voltage)	1~	1~
Measures		
Interior volume [cu.ft.]	4	4
Net weight of the unit (empty) [lbs]	126	126
Permitted load [lbs]	331	331
Load per rack [lbs]	66	66
Wall clearance back [in]	6.3	6.3
Wall clearance sidewise [in]	3.94	3.94
Internal Dimensions		
Width [in]	20.09	20.09
Height [in]	20.88	20.88
Depth [in]	16.74	16.74
Doors		
Unit doors	1	1
Housing dimensions not incl. fittings and connections		
Width net [in]	27.97	27.97
Height net [in]	27.78	27.78
Depth net [in]	23.84	23.84
Environment-specific data		
Energy consumption at 150 °C [Wh/h]	245	245
Fixtures		
Number of shelves (std./max.)	2/5	2/5

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.

DIMENSIONS INCL. FITTINGS AND CONNECTIONS [MM]

OPTIONS

Designation	Description	*	Art.-No.	
Options/Accessories	Calibration certificate, temperature	temperature measurement incl. certificate and 27 measuring points at specified temperature	–	8012-1593
		additional flexible Pt 100, interior, for displaying the temperature on the unit display	–	8012-1619
		back		
		10 mm	01	8012-1282
		30 mm	01	8012-0540
		50 mm	01	8012-0546
		battery-backed	–	8012-1640
		for Multi Management Software APT-COM™	–	8012-1645
		for temperature values (output not adjustable)	02	8012-1623
		for temperature; for extending the measurement in center of chamber to include another test temperature	–	8012-1115
		in accordance with ASTM D5374, definition and protocol according to ambient temperature	–	8012-0195
		left		
		10 mm	01	8012-1275
		30 mm	01	8012-1018
		50 mm	01	8012-1022
		100 mm	01	8012-1030
		lockable door handle	–	8012-1664
		made of FKM, silicone-free	03	8012-1009
		Measurement in center of chamber at specified temperature	–	8012-1134
		right		
		10 mm	01	8012-1268
		30 mm	01	8012-1017
		50 mm	01	8012-1021
		100 mm	01	8012-1031
		Switchable acoustic alarm, with adjustable limit value on the independent temperature safety device	–	8012-1635
		temperature measurement incl. certificate, 15- 18 measuring points at specified temperature	–	8012-1572
		temperature measurement incl. certificate, 9 measuring points at specified temperature	–	8012-1551
		top		
		10 mm	01	8012-1262
		30 mm	01	8012-0539
		50 mm	01	8012-0545
		100 mm	01, 10	8012-1029
	viewing window (triple insulating glass) in door, 370 x 370 mm, and 15 W interior			
	120 V option model	–	8012-1063	
	230 V option model	–	8012-1060	
	with 15 W light bulb			
	120 V option model	–	8012-1631	
	230/240 V option model	–	8012-1627	
	with visual alarm (DIN 12880)	04, 12	8012-0985	

* Notes › See last page

ACCESSORIES

Designation	Description	*	Art.-No.
Multi Management Software	Multi Management Software APT-COM™		
	version 4, BASIC edition	19	9053-0039
	version 4, GLP edition	19	9053-0042
	version 4, PROFESSIONAL edition	19	9053-0040

* Notes › See last page

Designation	Description	*	Art.-No.
	chrome plated	-	6004-0175
	Stainless steel	-	6004-0191
	stainless steel	-	6004-0159
	concentrated, for gentle remove of residual contaminants; 1 kg	-	1002-0016
	for Multi Management Software APT-COM™	-	8012-1645
	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
Options/Accessories	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	-	7007-0005
	LOG ANALYZE software kit, configuration and evaluation software for all BINDER Data Logger Kits (incl. USB data cable)	19	8012-0821
	set of 4 anti-slip feet, for safe stacking of units	-	8012-1887
	stable cart, casters with locking brakes, dimensions: W 1,000 x D 800 x H 780 mm	-	9051-0018
	Stainless steel, max. load per rack 70 kg	-	6004-0202
	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	8012-0714
	with lid made from 18/8 stainless steel, stackable, dimensions: 230 x 133 x 45 mm	-	4022-0123
	with lid made from 18/8 stainless steel, stackable, dimensions: 315 x 215 x 60 mm	-	4022-0124

* Notes › See last page

SERVICES

Designation	Description	*	Art.-No.
Installation services			
Services	Unit function instructions for operation and programming of the controller	18	DL10-0500
	Unpacking and setting up of unit, connecting to existing connections, and checking function	13, 18	DL10-0100
Preventive maintenance			
Services	Executive of equipment inspection according to maintenance plan	14, 18	DL20-0200
Calibration services			
	Expansion – including certificate, each additional measuring point in center of chamber at specified test temperature	14, 16, 17, 18	DL30-0102
	including certificate (in accordance with ASTM D5374)	14, 16, 17, 18	DL33-0000
Services	Temperature calibration with 1 measuring point in center of chamber at a specified test temperature, including certificate	14, 16, 17, 18	DL30-0101
	Temperature measurement with 18 measuring points at a specified test temperature, including certificate	14, 16, 17, 18	DL30-0118
	Temperature measurement with 27 measuring points at a specified test temperature, including certificate	14, 16, 17, 18	DL30-0127
	Temperature measurement with 9 measuring points at a specified test temperature, including certificate	14, 16, 17, 18	DL30-0109
Validation services			
Services	Execution of IQ/OQ in accordance with qualification folder	15, 18	DL40-0100
	Execution of IQ/OQ/PQ in accordance with qualification folder	15, 18	DL44-0500
Warranty service			
Services	The warranty is extended from 2 to 3 years from the delivery date, wear parts are excluded	-	DL00-2041
	The warranty is extended from 2 to 5 years from the delivery date, wear parts are excluded	-	DL00-2042

* Notes › See last page

NOTES

01	Hinweise
02	Hinweise
03	Hinweise
04	Hinweise
07	Hinweise
09	Hinweise
10	Hinweise
11	Hinweise
12	Hinweise
13	Hinweise
14	Hinweise
15	Hinweise
16	Hinweise
17	Hinweise
18	Hinweise
19	Hinweise

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

Representative Office for CIS

Moscow, Russia
TEL +7 495 988 15 16
FAX +7 495 988 15 17
russia@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