

# Model FD-S 115 | Drying and heating chambers with forced convection

The new products in the Solid.Line impress with their tried-and-tested BINDER quality and reliability. They are suited to drying and heating. The attributes of the Solid.Line are geared towards the application in question and therefore used in research and quality assurance.

## BENEFITS

- Easy handling
- Accurate temperature control
- Simple and ergonomic door opening



Model 115

## IMPORTANT FEATURES

- Temperature range: +10°C above ambient temperature to +250 °C
- APT.line™ preheating chamber technology
- Forced convection
- Adjustable exhaust air flap
- Controller with timer function
- 1 chrome-plated rack, incl. shelf supports
- Class 2 integrated independent adjustable temperature safety device (DIN 12880) with visual alarm

## ORDERING INFORMATION

Interior volume		Power supply - unit fuse	Plug*	Version	Model version	Art.-No.
[L]	[L]					
<b>Model FD-S 115</b>						
		230 V 1~ 50/60 Hz -6,3 A	CEE 7/7	Standard	FDS115-230V	9090-0024
106	106	120 V 1~ 60 Hz -6,3 A	NEMA 5-15	Standard	FDS115UL-120V	9090-0025

## TECHNICAL DATA

Data		
Designation	FDS115-230V	FDS115UL-120V
Article Number	9090-0024	9090-0025
Option model	Standard	Standard
Performance Data Temperature		
Temperature range	+10 °C above ambient temperature to 250 °C	+10 °C above ambient temperature to 250 °C
Temperature uniformity at 150°C	2.0 ± K	2.0 ± K
Temperature fluctuation at 150°C	0.4 ± K	0.4 ± K
Heating up time to 150°C	20 min	20 min
Recovery time after door was opened for 30 s at 150°C	8 min	8 min
Electrical data		
Rated Voltage	230 V	120 V
Power frequency	50/60 Hz	60 Hz
Nominal power	1,3 kW	1,4 kW
Unit fuse	6,3 A	6,3 A
Phase (Nominal voltage)	1~	1~
Measures		
Interior volume	106 L	106 L
Net weight of the unit (empty)	48 kg	48 kg
Load per rack	20 kg	20 kg
Permitted load	75 kg	75 kg
Wall clearance back	160 mm	160 mm
Wall clearance sidewise	100 mm	100 mm
Housing dimensions not incl. fittings and connections		
Width net	764 mm	764 mm
Height net	735 mm	735 mm
Depth net	616 mm	616 mm
Internal Dimensions		
Interior width	550 mm	550 mm
Interior height	550 mm	550 mm

Interior depth	350 mm	350 mm
Unit doors	1	1
<b>Environment-specific data</b>		
Sound-pressure level	48 dB(A)	48 dB(A)
Energy consumption at 150°C	340 Wh/h	340 Wh/h
<b>Fixtures</b>		
Number of shelves (std./max.)	1/5	1/5

## DIMENSIONS Incl. fittings and connections [mm]



## OPTIONS

No data found.

## ACCESSORIES

Designation	Description	FD-S 115	*	Art.-No.
Grid shelf	Incl. shelf supports			
	chrome plated	•	-	8012-1808
Rubber pads	set anti-slip feet	•	-	8012-2030
pH-neutral detergent	concentrated, for gentle remove of residual contaminants; 1 kg	•	-	8012-2250

## SERVICES

Designation	Description	*	Art.-No.
<b>Calibration services</b>			
Measurement of air exchange rate	including certificate (in accordance with ASTM D5374)	-	DL33-0000
Temperature calibration	Calibration of one (1) test temperature specified by the user in center of chamber, including certificate Travel to be quoted separate.	-	DL30-0101
	Extension of calibration of one (1) additional test temperature specified by the user in the center of the usable space, including certificate Travel to be quoted separate.	-	DL30-0102
Temperature measurement, 9 measuring points	Temperature measurement with 9 measuring points with a set value specified by the user, including certificate. Travel to be quoted separate. A total of 3 shelves are required.	-	DL30-0109

Designation	Description	*	Art.-No.
Temperature measurement, 27 measuring points	Temperature measurement with 27 measuring points with a set value specified by the user, including certificate. Travel to be quoted separate. A total of 3 shelves are required.	–	DL30-0127
<b>Installation services</b>			
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) Travel to be quoted as separate.	–	DL10-0100
Unit instructions	Instruction regarding operating principle and basic functions of the unit, operation of the control electronics including programming. Travel to be quoted as separate Limited to 3 hours.	–	DL10-0500
<b>Maintenance services</b>			
BRONZE 3-year maintenance contract	Annual Device Inspection Includes Preventive Maintenance with Calibration Certificate. 10% Discount on Spare Parts and Labor for any additional Services needed Wear + tear parts to be purchased or billed to customer. Travel to be quoted as separate.	–	DL20-0710
GOLD 3-year maintenance contract	Annual Device Inspection Includes Preventive Maintenance with Calibration Certificate of Temperature. 25% Discount on Spare Parts and Labor for any additional Services needed. One additional courtesy visit per year can be used for service visit or operator. Wear + tear parts to be purchased or billed to customer. Travel to be quoted separate.	–	DL20-0910
Preventive maintenance	One-off maintenance service in accordance with maintenance schedule. Visual inspection of mechanical and electrical components, testing of all key functions. Checking a test temperature specified by the user in center of usable space without certificate. Wear + tear parts need to be purchased or billed to customer. Travel to be quoted as separate.	–	DL20-0200
SILVER 3-year maintenance contract	Annual Device Inspection Includes Preventive Maintenance with Calibration Certificate 15% Discount on Spare Parts and Labor for any additional Services needed One additional courtesy visit per year can be used for service visit or operator training. Wear + tear parts to be purchased or billed to customer. Travel to be quoted separate.	–	DL20-0810
<b>Warranty service</b>			
1-year warranty extension	The warranty is extended by 1 year from the delivery date, wear parts are excluded	–	DL50-0010

**BINDER GmbH**  
 Tuttlingen, Germany  
 TEL +49 7462 2005 0  
 FAX +49 7462 2005 100  
 info@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

**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 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