

# 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

### **MAIN FEATURES**

- Temperature range: +10 °C above ambient temperature to +250 °C
- APT.line<sup>™</sup> 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 [L]	Voltage	Option model	Version	ArtNo.
	230 V 1~ ph 50/60 Hz	Standard	FDS115-230V	9090-0024
106	120 V 1~ ph 60 Hz	Standard	FDS115UL-120V	9090-0025

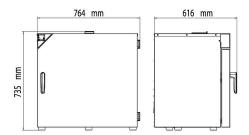
## **TECHNICAL DATA**

Description	FDS115-230V	FDS115UL-120V	
Article Number	9090-0024	9090-0025	
Performance Data Temperature			
Temperature range +10 $^{\rm o}{\rm C}$ above ambient temperature to $[^{\rm o}{\rm C}]$	250	250	
Temperature variation at 150 °C [± K]	2.4	2.4	
Temperature fluctuation at 150 °C [± K]	0.5	0.5	
Heating-up time to 150 °C [min]	22	22	
Air change data			
Air change (approx.) at 100 °C [x/h]	32	32	



Description	FDS115-230V	FDS115UL-120V
Article Number	9090-0024	9090-0025
Electrical data		
Rated Voltage [V]	230	120
Power frequency [Hz]	50/60	60
Nominal power [kW]	1.3	1.3
Unit fuse [A]	6.3	6.3
Phase (Nominal voltage)	1~	1~
Measures		
Interior volume [L]	106	106
Net weight of the unit (empty) [kg]	53	47
Permitted load [kg]	75	75
Load per rack [kg]	20	20
Wall clearance back [mm]	160	160
Wall clearance sidewise [mm]	100	100
Internal Dimensions		
Width [mm]	550	550
Height [mm]	550	550
Depth [mm]	350	350
Doors		
Unit doors	1	1
Housing dimensions not incl. fittings and connections		
Width net [mm]	764	764
Height net [mm]	735	735
Depth net [mm]	616	616
Environment-specific data		
Energy consumption at 150 °C [Wh/h]	340	340
Sound-pressure level [dB(A)]	43	43
Fixtures		
Number of shelves (std./max.)	1/5	1/5

## DIMENSIONS incl. fittings and connections [mm]



## ACCESSORIES

Designation	Description	*	ArtNo.
Data Logger Kit	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	-	8012-0714
Data Logger Software	LOG ANALYZE software kit, configuration and evaluation software for all BINDER Data Logger Kits (incl. USB data cable)	-	8012-0821
Grid shelf	Incl. shelf supports		
	chrome plated	-	8012-1808
pH-neutral detergent	concentrated, for gentle remove of residual contaminants; 1 kg	-	1002-0016
Rubber pads	set anti-slip feet	-	8012-1887
* Notes See last name			

\* 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	DL20-091
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	DL20-020
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	DL20-081
Calibration services			
Colibertion continues	Calibration of one (1) test temperature specified by the user in center of chamber, including certificate	03, 04, 05	DL30-010:
Calibration 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	DL30-010:
Measurement of air exchange rate	including certificate (in accordance with ASTM D5374)	03, 04, 05	DL33-000
Temperature measurement, 27 measuring points	Temperature measurement with 27 measuring points with a set value specified by the user, including certificate	03, 04, 05	DL30-012;
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
Warranty service			
1-year warranty extension	The warranty is extended by 1 year from the delivery date, wear parts are excluded	_	DL50-001

\* 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. 01
- 02
- Sensor calibration is performed in an accredited calibration laboratory. 03
- Calibration is performed according to the BINDER factory standard. 04
- 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).

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