

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™ 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 [cu.ft.] | Voltage | Option model | Version | Art.-No. |
|--------------------------|-------------------|--------------|---------------|-----------|
| 3-7 | 230 V 1~ 50/60 Hz | Standard | FDS115-230V | 9090-0024 |
| | 120 V 1~ 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 °C above ambient temperature to [°C] | 250 | 250 |
| Temperature variation at 150 °C [± K] | 2.0 | 2.0 |
| Temperature fluctuation at 150 °C [± K] | 0.4 | 0.4 |
| Heating-up time to 150 °C [min] | 20 | 20 |
| Air change data | | |
| Air change (approx.) at 100 °C [x/h] | 2 | 2 |

| 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 | 1.4 |
| Unit fuse [A] | 6.3 | 6.3 |
| Phase (Nominal voltage) | 1~ | 1~ |
| Measures | | |
| Interior volume [cu.ft.] | 3.7 | 3.7 |
| Net weight of the unit (empty) [lbs] | 106 | 106 |
| Permitted load [lbs] | 165 | 165 |
| Load per rack [lbs] | 44 | 44 |
| Wall clearance back [in] | 6.3 | 6.3 |
| Wall clearance sidewise [in] | 3.94 | 3.94 |
| Internal Dimensions | | |
| Width [in] | 21.67 | 21.67 |
| Height [in] | 21.67 | 21.67 |
| Depth [in] | 13.79 | 13.79 |
| Doors | | |
| Unit doors | 1 | 1 |
| Housing dimensions not incl. fittings and connections | | |
| Width net [in] | 30.1 | 30.1 |
| Height net [in] | 28.96 | 28.96 |
| Depth net [in] | 24.27 | 24.27 |
| Environment-specific data | | |
| Energy consumption at 150 °C [Wh/h] | 340 | 340 |
| Sound-pressure level [dB(A)] | 48 | 48 |
| Fixtures | | |
| Number of shelves (std./max.) | 1/5 | 1/5 |

DIMENSIONS INCL. FITTINGS AND CONNECTIONS [MM]



ACCESSORIES

| Designation | Description | * | Art.-No. |
|-----------------------------|--|---|-----------|
| 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 | - | 8012-2030 |

* Notes › See last page

SERVICES

| Designation | Description | * | Art.-No. |
|--|---|---------------|-----------|
| Installation services | | | |
| 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) | 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 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 | | | |
| Measurement of air exchange rate | including certificate (in accordance with ASTM D5374) | 03, 04, 05 | DL33-0000 |
| Temperature calibration | Calibration of one (1) test temperature specified by the user in center of chamber, including certificate | 03, 04, 05 | DL30-0101 |
| | 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 |
| 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 |
| Warranty service | | | |
| Warranty extension from 2 to 3 years | 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.
- 02 UL mark is not granted when this option is used.
- 03 Sensor calibration is performed in an accredited calibration laboratory.
- 04 Calibration is performed according to the BINDER factory standard.
- 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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