

# Model FD-S 56 | 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 56

#### 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 1288o) with visual alarm

#### ORDERING INFORMATION

| Interior volun | ne  | Power supply - unit fuse | Plug*     | Version  | Model version | ArtNo.    |
|----------------|-----|--------------------------|-----------|----------|---------------|-----------|
| [L]            | [L] |                          |           |          |               |           |
| Model FD-S 5   | ;6  |                          |           |          |               |           |
| 55             | 55  | 230 V 1~ 50/60 Hz -6,3 A | CEE 7/7   | Standard | FDS056-230V   | 9090-0018 |
|                |     | 120 V 1~ 60 Hz -6,3 A    | NEMA 5-15 | Standard | FDS056UL-120V | 9090-0019 |



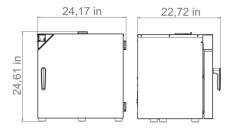
## TECHNICAL DATA

| TECHNICAL DATA  |  |  |
|---|--|--|
| Data  |  |  |
| Designation   | FDS056-230V                                | FDS056UL-120V                              |
| Article Number  | 9090-0018                                  | 9090-0019                                  |
| 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                       | 2.6 ± K                                    | 2.6 ± K                                    |
| Temperature fluctuation at 150°C                      | 0.4 ± K                                    | o.4 ± K                                    |
| Heating up time to 150°C                              | 15 min                                     | 15 min                                     |
| Recovery time after door was opened for 30 s at 150°C | 5 min                                      | 5 min                                      |
| Air change data                                       |  |  |
| Air change rate at 100°C                              | 4 x/h                                      | 4 x/h                                      |
| Electrical data                                       |  |  |
| Rated Voltage   | 230 V                                      | 120 V                                      |
| Power frequency                                       | 50/60 Hz                                   | 60 Hz                                      |
| Nominal power   | 1,1 kW                                     | 1,2 kW                                     |
| Unit fuse   | 6,3 A                                      | 6,3 A                                      |
| Phase (Nominal voltage)                               | 1~   | 1~   |
| Dimensions and weights                                |  |  |
| Interior volume                                       | 55 L                                       | 55 L                                       |
| Net weight of the unit (empty)                        | 35 kg                                      | 35 kg                                      |
| Load per rack   | 15 kg                                      | 15 kg                                      |
| Permitted load  | 45 kg                                      | 45 kg                                      |
| Wall clearance back                                   | 160 mm                                     | 160 mm                                     |
| Wall clearance sidewise                               | 100 mm                                     | 100 mm                                     |
| Housing dimensions not incl. fittings and connections |  |  |
| Width net   | 614 mm                                     | 614 mm                                     |
| Height net  | 625 mm                                     | 625 mm                                     |
| Depth net   | 577 mm                                     | 577 mm                                     |
| Internal Dimensions                                   |  |  |



| Interior width                | 400 mm   | 400 mm   |
|-------------------------------|----------|----------|
| Interior height               | 440 mm   | 440 mm   |
| Interior depth                | 310 mm   | 310 mm   |
| Unit doors                    | 1        | 1        |
| Environment-specific data     |          |          |
| Sound-pressure level          | 43 dB(A) | 43 dB(A) |
| Energy consumption at 150°C   | 290 Wh/h | 290 Wh/h |
| Fixtures                      |          |          |
| Number of shelves (std./max.) | 1/3      | 1/3      |
|                               |          |          |

## DIMENSIONS Incl. fittings and connections [mm]



## **OPTIONS**

No data found.

## **ACCESSORIES**

| Designation          | Description   | FD-S 56 | * | ArtNo.    |
|----------------------|---|---------|---|-----------|
| 6:11.11              | Incl. shelf supports  |         |   |           |
| Grid shelf           | chrome plated   | •       | - | 8012-1807 |
| Rubber pads          | ubber pads set anti-slip feet   |         | - | 8012-2030 |
| pH-neutral detergent | oH-neutral detergent concentrated, for gentle remove of residual contaminants; 1 kg |         | - | 8012-2250 |

#### **SERVICES**

| Designation                      | Description  |   | ArtNo.    |  |
|----------------------------------|--|---|-----------|--|
| Calibration services             |  |   |           |  |
| Measurement of air exchange rate | including certificate (in accordance with ASTM D <sub>5374</sub> ) | - | DL33-0000 |  |



| Designation                                  | Description  | * | ArtNo.    |
|--|--|---|-----------|
| Temperature calibration                      | 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 |
| 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 |
| 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) 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 |
| Maintenance services                         |  |   |           |
| 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 |
| 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 |
| Warranty service                             |  |   |           |
| 1-year warranty extension                    | The warranty is extended by 1 year from the delivery date, wear parts are excluded   | _ | DL50-0010 |



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