

Series FD Avantgarde.Line | with forced convection

A BINDER FD series Avantgarde.Line heating oven is always used when fast drying and sterilization is required. Thanks to its fully homogeneous temperature distribution, quick dynamics and powerful fan, this heating oven saves valuable time.



FD 56 model

MAIN FEATURES

- Temperature range: ambient temperature plus 10 °C to 300 °C
- High temperature accuracy thanks to APT.line™ technology
- Forced convection
- Controller with LCD display
- Electromechanical control of the exhaust air flap
- 2 chrome-plated racks
- Units up to 115 L are stackable
- Class 2 independent temperature safety device (DIN 12880) with visual temperature alarm
- Ergonomic handle design
- USB port for recording data

AVAILABLE SIZES

Model	Interior volume [cu. ft.]	Online data sheets
FD 56	2.1	go2binder.com/us-FD56
FD 115	4.1	go2binder.com/us-FD115
FD 260	9.1	go2binder.com/us-FD260
FD 720	26.2	go2binder.com/us-FD720



TIPS & TRICKS

Benefit from our many years of experience, as demonstrated in our technical papers:

Tips & Tricks: go2binder.com/us-tips-tricks
 Case Studies: go2binder.com/us-case-studies



Find all details online
go2binder.com/us-FD-a

ADVANTAGES AT A GLANCE



EASY DATA LOGGING

Series ED, FD, FED

The USB connector, standard on the ED, FD and FED, provides easy data logging. Ethernet connectivity is standard on FED and an option for ED and FD.



BEST ENERGY EFFICIENCY ON THE MARKET AND LOW INSTALLATION REQUIREMENTS

Series ED, FD, FED

thanks to low heat dissipation and an optimized heating system.



EASY, INTUITIVE HANDLING

Series ED, FD, FED

Our state-of-the-art controller with LCD display, excellent readability, alphanumeric display, and various functions provide a user friendly interface. Choice of languages as standard: English, German, and French.



COMPLETELY HOMOGENEOUS TEMPERATURE DISTRIBUTION

Series FD, FED

This feature provides excellent spatial and temporal temperature accuracy with the all-new generation of APT.line™ technology.

TECHNICAL DATA

Description	FD 56	FD 115	FD 260	FD 720
Outer dimensions				
Width net [in]	22.06	27.97	31.91	45.9
Height net [in]	24.63	28.96	38.02	62.6
Depth net [in]	22.26	23.84	29.94	34.28
Internal Dimensions				
Width [in]	15.76	21.67	25.61	39.4
Height [in]	17.34	21.67	30.73	51.2
Depth [in]	13.59	15.17	20.29	22.46
Measures				
Interior volume [cu.ft.]	2.1	4.1	9.1	26.2
Net weight of the unit (empty) [lbs]	86	119	187	366
permitted load [lbs]	154	331	595	694
Load per rack [lbs]	66	66	88	99
Performance Data Temperature				
Temperature range 10 °C above ambient temperature to [°C]	300	300	300	–
Temperature range 12 °C above ambient temperature to [°C]	–	–	–	300
Temperature variation at 150 °C [± K]	1.7	1.7	1.9	2.5
Temperature fluctuation at 150 °C [± K]	0.3	0.3	0.4	0.6
Heating-up time to 150 °C [min]	15	18	19	25
Recovery time after 30 seconds door open at 150 °C [min]	4	4	5	6
Electrical data				
Nominal power (version 120 V) [kW]	1.2	1.4	–	–
Nominal power (version 230 V) [kW]	1.1	1.3	2.3	–
Nominal power (version 240 V) [kW]	–	–	2.5	–
Nominal power (version 400 V) [kW]	–	–	–	4.5
Fixtures				
Number of shelves (std./max.)	2/4	2/5	2/8	2/16

ORDERING INFORMATION [Art. No.]

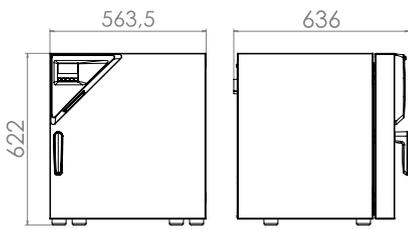
Further details: Go to www.binder-world.com > Search > Enter Article Number

Voltage	Option model	FD 56	FD 115	FD 260	FD 720
400 V 3~ 50/60 Hz	Standard	–	–	–	9010-0311
240 V 1~ 60 Hz	Standard	–	–	9010-0310	–
230 V 1~ 50/60 Hz	Standard	9010-0303	9010-0305	9010-0309	–
120 V 1~ 60 Hz	Standard	9010-0304	9010-0306	–	–

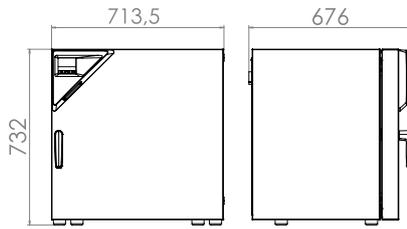
► You will find a selection of options, accessories and services suitable for each product on page 15

DIMENSIONS INCL. FITTINGS AND CONNECTIONS [MM]

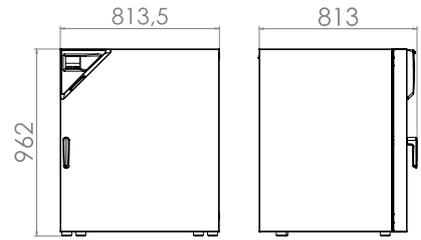
FD 56



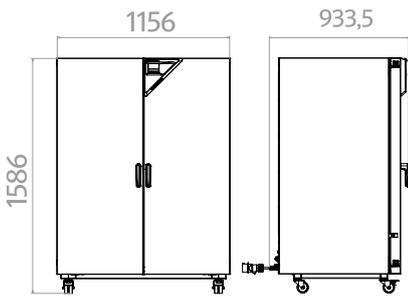
FD 115



FD 260



FD 720



EXCERPT FROM OPTIONS AND ACCESSORIES

Access port with silicone plug For introducing external measuring instruments. Large selection of different diameters and positions (left, right, or top)
Series ED, FD, FED

Data Logger Kit T Independent temperature data logging. The tailored product solution contains helpful accessories: From the magnetic mounting of the data logger to the BINDER unit and securing sensor cable for accurate readings.
Series ED, FD, FED

Viewing window and interior lighting Viewing window in the door with a triple-glazed insulating glass and interior lighting for easy visibility of the samples.
Series ED, FD, FED

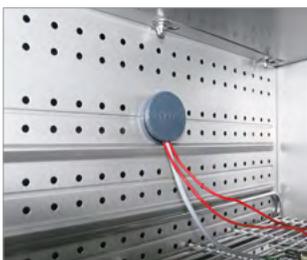
Shelf racks Perforated shelves or shelf racks, chrome-plated or made from stainless steel.
Series ED, FD, FED

HEPA air filter Particle filter on fresh air supply for unit; filter classification H14 (acc. to. EN 1822-1:2009, > 99.995% at 0.3 µm).
Series ED, FD, FED

Services You can access our installation, maintenance, calibration, validation, or warranty services by taking out a Maintenance Service Agreement or by simply getting in touch when you need us. More information is available in the accessories and services chapter.
Series ED, FD, FED

BINDER INDIVIDUAL Using a BINDER series production product as a basis, we develop individual solutions as a single unit or in small batches. All products are tested, certified, and supplied with a full functional guarantee and warranty. More information is available in the accessories and services chapter.
Series ED, FD, FED

► All extras online go2binder.com/us-options



Access port with silicone plug



Data Logger for temperature



Viewing window in the door



Shelf