FG

Best Technology
For Your Laboratory

SMART LABORATORY DRYING OVEN
WITH FORCED AIR CIRCULATION
S CLASS

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BF240S

Overview | BF240S

FG laboratory drying ovens have various features, including high precision, repeatability, temperature uniformity, and a wide temperature range (up to 300°C). They are suitable and reliable for temperature control and drying materials in scientific, research, and industrial laboratories.

With their ability to connect to the internet in the cloud space, S-class laboratory ovens provide users with the easiest and most convenient way to monitor and analyze extensive data from any location worldwide.

The BF240S is a 250-Liter forced-air circulation smart laboratory drying oven.

Main features | BF240S

Inner chamber and Heater element container made of stainless steel
The heater element embedded by stainless steel shield
External Case Coated with electrostatic powder paint
Circulation fan system with air channel
Temperature Wide range up to 300°C
Equipped with Error Alarm
High energy efficiency
PT100 sensor

Special benefits | BF240S

HCT (Homogeneous chamber technology)

Temperature stability and reproducibility

Uniformity @ 27 points of chamber

Triple-walled chamber

Fast recovery time

DUAL SAFETY

Class 3.1 independent temperature safety device (DIN12880)

Visual and audible temperature alarm

2 PT100 sensors

S class controller

The new generation of smart timer is adjustable up to 999 hours and permanent work capability

A wide range of options for programming and documentation using interfaces, integrated data logger, and FG SMART MONITOR Software

All parameters are stored in internal memory for up to 1 year

All parameters are logged even in case of power failure

More stability thanks to the fuzzy controller

Setting all parameters online/offline

Connect to internet with Wi-Fi

ARM series microcontroller

User-friendly calibration

Various temp alarm

Open door alarm

USB port

Special benefits | BF240S

FG SMART MONITOR

Multiplatform application (Android, Linux, IOS, windows, macOS, chromium and ...)

Programming, managing & transferring data by USB flash

Various reports with graphs and tables in pdf/excel format

Unlimited programs, each program up to 100 steps

Weekly, monthly automatic report by email

Online controller display lock/unlock

Reports according to GMP /GLP

User friendly online calibration

Online monitoring and alarms

Temperature ramp setting

SMS/email notification

weekly program

Inner chamber

Silicon tape around the door resistant to temperatures of up to 330°C

Easy access to the element container for cleaning

Easy loading and unloading of specimen material

Circulation fan system with air channel

2 chrome -plated racks included

Fully stainless-steel chamber

Adjustable height of shelves

Rack with tilt protection

Easy cleaning

Special benefits | BF240S

Outer body

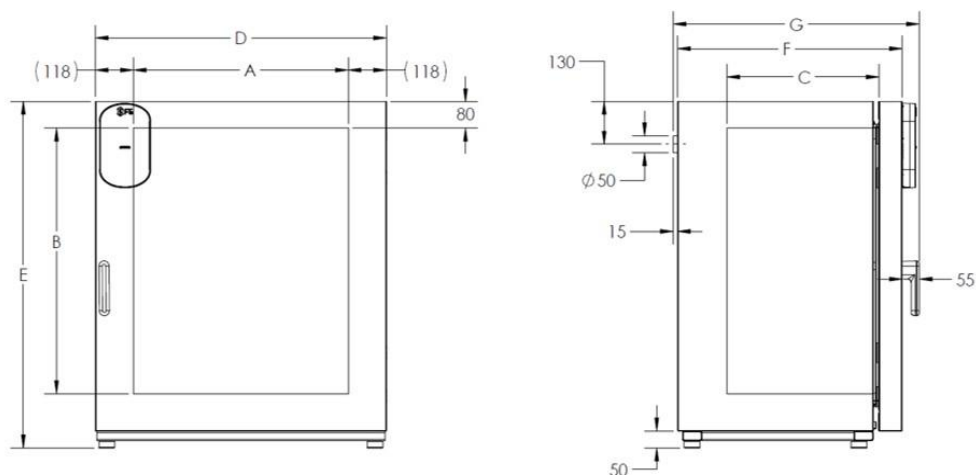| |
|---|
| Air exchange rates and air flap position electronically controllable |
| Pre-heated fresh air prevents temperature fluctuations |
| Very tight door closure with 2-points door latch |
| Beautiful and ergonomic design |

Service and guaranty

10-years after-sales service
5-years heater warranty
2-years guaranty

Specification | BF240S

Exterior dimensions

Wall clearance, side (cm)	16
Wall clearance, rear (cm)	10
Exhaust duct (outer Ø cm)	5
Depth Plus door handle and controller (cm) (G)	77.2
Depth without door handle and controller (cm) (F)	70.2
Height (incl. feet) (cm) (E)	105.2
Width (cm) (D)	90
Weight (empty) (kg)	98
Number of doors (ea.)	1

Interior dimensions

Interior volume (l)	250
Height (cm) (B)	80.5
Width (cm) (A)	66.4
Depth (cm) (C)	47
Permitted total load (kg)	150
Load per rack (kg)	40
Racks number standard (max)	2 (8)
Circulation fan	Yes

Specification | BF240S

Temperature data

Temperature range approx. 15 °C above ambient temperature to (°C)	300
Display accuracy (deviation) @ 60℃ (±K)	±0.1
Display accuracy (deviation) @ 150℃ (±K)	±0.1
Temperature fluctuation @ 60°C (±K)	±0.2
Temperature fluctuation @ 150°C (±K)	±1.0
Setting temperature accuracy	±0.1

Uniformity @ 27 points of chamber (variation)

@ 60°C (±k)	±0.7
@ 150°C (±k)	±4.0

Heating-up time *

Heating up time to 60°C (min)	15
Heating up time to 150°C (min)	25

Recovery time after doors were open for 30 sec *

@ 60°C (min)	10
@ 150°C (min)	10

email: global@fginst.com

website: www.fginst.com

Specification | BF240S

Air exchange

@ 60°C (x/h)	25±5
@ 150°C (x/h)	15±5

Electrical data

Power (W)	3520
Frequency (HZ)	50
Voltage (V AC)	220
Current (A)	16
Power type	single phase
Plug type	CEE 7/7 plug (compatible with E and F)

Electric energy consumption

@ 60°C (Wh/h)	210
@ 150°C (Wh/h)	700

Specification | BF240S

Packing/ shipping data

| Transport information	Device Must be transported upright
Width (CM) approx.	111
Height (incl carton and pallets) (CM) approx.	133
Depth (CM) approx.	92
Packing Material	Carton and wooden pallet
Gross weight with packing (KG) approx.	130

* To 98% of the set value

- All technical data are specified for units with standard equipment at an ambient temperature of 25 °C and a line voltage fluctuation of ±10%.
- FG reserves the right to change technical specifications at any time.

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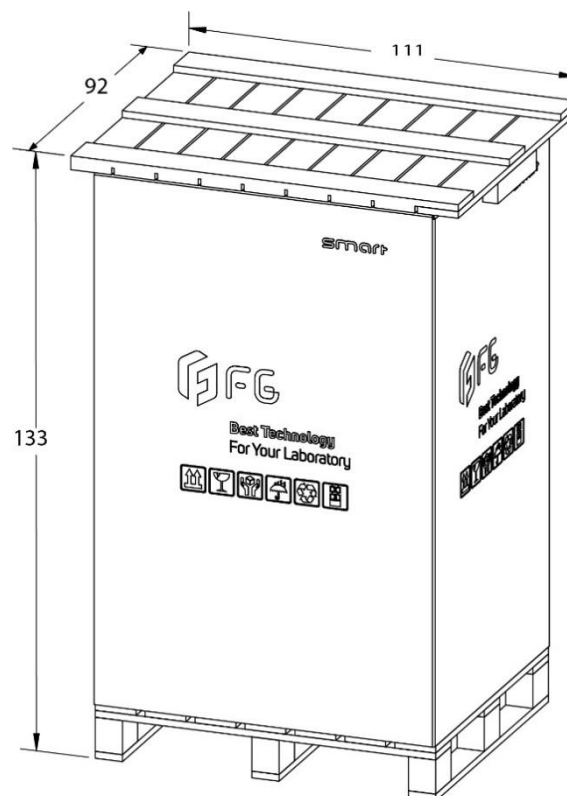
Options and accessories |BF240S

Additional stainless-steel rack
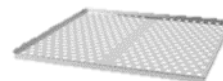
Access port with silicone plug

Metal-framed glass doors

Qualification folder IQ/OQ/PQ
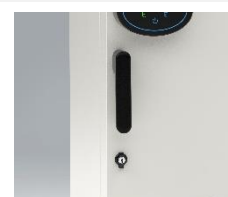
Calibration certificate

Interior lighting

External sensor

Rack

Door lock