FG

Best Technology
For Your Laboratory

LABORATORY DRYING OVEN WITH CIRCULATION FAN

LABORATORY DRYING OVEN
WITH CIRCULATION FAN

BF120E

Overview | BF120E

The smart oven model BF120 E, is a triple-walled oven with special benefits. Thermal controller with a wide range of function, high heating rate (up to 300 degrees), incomparable accuracy and HCT unique technology are from the most important benefits of this oven. The round corners of the inner chamber have given the oven such beauty and elegance and greatly help the user in cleaning it.

Circulation fan system with air channel is one of the innovations in the production of this oven that led to a perfect isotherm.

This device is used in a variety of industrial, food, pharmaceutical and research laboratories

Main features | BF120E

Inner chamber and Heater element container made of stainless steel

The heater element is embedded in protection stainless steel shield

External Case Coated with electrostatic powder paint

Circulation fan system with air channel

Equipped with Error Alarm

Special benefits | BF120E

HCT (Homogenic chamber technology)

Temperature stability and reproducibility
Uniform circulation even under full load
Uniformity @ 27 point of chamber
Short warm up times
Triple-walled
Quick drying

DUAL SAFETY

Class 3.1 independent temperature safety device (DIN12880)
Mechanical safety thermostat
Visual alarm

Microprocessor controller

Outage detection in time of operation and subsequent notification of the operator
PID controller with an accuracy of 0.1 degree
999-hour smart timer(permanently operable)
Central troubleshooting system
PT 100 temperature sensor
Adjustable thermal ramp
Wide range: up to 300°C
Delay timer

Special benefits | BF120E

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

2 Chrome - plated racks for better uniformity

Fully stainless steel

Easy cleaning

Outer body

Adjustable front ventilation flat slide and rear exhaust 50 mm

Very tight door closure with 2-points door latch

Beautiful and ergonomic design

Service and guaranty

1-year replacement warranty

10-years after-sales service

5-years heater warranty

2-years guaranty

Special benefits | BF120E

Specification | BF120E

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)	73
Depth (cm)	67.5
Height (incl. feet) (cm)	68
Width (cm)	82.5
Weight (empty) (kg)	62
Number of doors (ea.)	1

Interior dimensions

Interior volume (l)	120
Height (cm)	46
Width (cm)	59
Depth (cm)	44.5
Permitted total load (kg)	25
Load per rack (kg)	5
Racks (number standard-max.)	2-5
Circulation fan	yes

Specification | BF120E

Specification | BF120E

Temperature data

Temperature range approx. 15 °C above ambient temperature to (°C)	300°C
Display accuracy @ 70 °C (±K)	±0.2
Display accuracy @ 150 °C (±K)	±0.5
Display accuracy @ 250 °C (±K)	±1
Temperature fluctuation @ 100 °C (±K)	±0.5

Uniformity @ 27 points of chamber

@ 80 °C (±k)	±1.5
@ 150 °C (±k)	±1.5
@ 250 °C (±k)	±2.5

heating-up time *

heating up time to 70 °C (min)	15
heating up time to 150 °C (min)	40
heating up time to 300 °C (min)	65

Specification | BF120E

Specification | BF120E

Recovery time after doors were open for 30 sec *

@ 70 °C (min)	15
@ 150 °C (min)	25
@ 300 °C (min)	35

Electrical data

Power (W)	1600
Frequency (HZ)	50
Voltage (V AC)	220
Current (A)	7.2
Power type	Single phase

* 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%.

Options and accessories | BF120E

Access port with silicone plug

Additional stainless steel rack

Custom made order is available

Metal-framed glass doors

Qualification folder IQ/OQ/PQ

Calibration certificate

Interior lighting

Rack

FG