



Best Technology
For Your Laboratory

LABORATORY DRYING OVEN

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BM120E



Overview | BM120E

The smart oven model BM 120E, 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.

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

Main features | BM120E

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

Equipped with Error Alarm

Special benefits | BM120E

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 | BM120E

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

Services and golden warranty

1-year replacement warranty

10-years after sales service

5-years heater warranty

2-years guaranty

Specification | BM120E

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)	55
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	No

Specification | BM120E

Temperature data

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

Uniformity @ 27 points of chamber

at 80 °C (±k)	±2.5
at 150 °C (±k)	±3
at 250 °C (±k)	±4.5

heating-up time *

heating up time to 70 °C (min)	25
heating up time to 150 °C (min)	35
heating up time to 300 °C (min)	70

Specification | BM120E

Recovery time after doors were open for 30 sec *

at 70 °C (min)	10
at 150 °C (min)	15
at 300 °C (min)	25

Electrical data

Power (W)	1500
Frequency (HZ)	50
Voltage (V AC)	220
Current (A)	6.8
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 $\pm 10\%$.

Options and accessories | BM120E

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





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