

Data Sheet

Model: MFSO-ASTM

Minimum Free Space Oven (ASTM)



INTRODUCTION

Minimum Free Space oven (MFSO-ASTM) is utilized for this drying process which features a compact heated chamber that provides the lowest practical volume, or minimum free space.

A known mass of coal is heated using a Air stream to a temperature of 105 to 110 °C as per ASTM D3173 -11 and held until its mass remains constant. The mass loss is used to determine the coal's moisture content.

The temperature required as per ASTM D3173 -11 is 120 °C to 200 °C



MFSO-ASTM

SPECIFICATIONS

Maximum Temperature: 210°C

Maximum Continuous Temperature: 210°C

Chamber dimensions (mm)- 43 x 195 x 300 (2.5L)
(H x W x D)

The ovens have an aluminum chamber that resists oxidation and corrosion, resulting in excellent temperature uniformity over the working volume.

Before accessing the front of the work chamber, the air flow passes through a preheating chamber and is adjustable via a flow meter mounted on the control panel.

The MFSO operates with a regulated flow of air as per ASTM D3173 -11.

High end Microprocessor PID controller.

2 Flow meters are fitted as standard to monitor gas flow of Air & chamber seal integrity.

Aluminium loading tray and puller are supplied as standard accessories.

External Dimensions (mm): 210 x 465 x 548 (H x W x D)
(Indicative)

Supply / Power: 230V, Single Phase, 500 Watts.

OPTIONS

Over temperature protection

Multi segment, multi program storage Controllers

Crucibles (Quartz/Alumina/Fused Silica) with well-fitting lids

Vacuum desiccator with gas inlet & gas outlet



Vacuum desiccator

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