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

Elite Thermal Systems Ltd
Elite Court, 6 Stuart Road, Market Harborough, Leicestershire LE16 9PQ, UK
Tel: +44 (0)1858 469834 | E-mail: contact@elitefurnaces.com | Website: www.elitefurnaces.com

Elite DOC 179
REV No: 001