

Data Sheet

Model: MFSU

Minimum Free Space Oven (ASTM & ISO)



INTRODUCTION

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

A stream of nitrogen or air is utilized to heat a known mass of coal to a temperature between 105 °C and 110 °C. The coal is then kept at this temperature until its mass remains constant. The mass loss of the coal is used to calculate the moisture content.

MFSU is a Universal Minimum free space oven that can work as per ISO, BS & ASTM test methods.



MFSU

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 nitrogen or air flow passes through a preheating chamber and is adjustable via a flow meter mounted on the control panel.

The MFSU operates with a regulated flow of moisture free nitrogen gas which removes the moisture released by the coal at 105 °C as per BS 1016-104.2:1991, BS ISO 687:2010 & BS ISO 11722:2013.

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

| High end Microprocessor PID controller.

| 3 Flow meters are fitted as standard to monitor gas flow of Nitrogen, 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– 1 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

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