

Data Sheet

Model: MFSO-ISO

Minimum Free Space Oven (ISO)



INTRODUCTION

Minimum Free Space oven (MFSO-ISO) 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 nitrogen stream to a temperature of 105-110 °C as per ISO 11722:2013 and held until its mass remains constant. The mass loss is used to determine the coal's moisture content.

The temperature required as per ISO 687:2010 is 120 °C to 200 °C



MFSO-ISO

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

The MFSO-ISO operates with a regulated flow of moisture free nitrogen gas which removes the moisture released from sample as per ISO 687:2010 & ISO 11722:2013.

| High end Microprocessor PID controller.

| 2 Flow meters are fitted as standard to monitor gas flow of Nitrogen & 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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