

# Data Sheet

## Model: VMF/ASTM+Pre-Heat

1000°C Maximum Temperature



### INTRODUCTION

The VMF/ASTM+Pre-Heat is a bench mounted furnace specially designed for determination of volatile matter in coal and coke samples as per ASTM D3175.

Specifically engineered to include testing of Sparking Coals, This advanced model features an integrated pre-heating zone within the same furnace, eliminating the need for external accessories or separate setups.

The pre-heating zone is maintained at 600°C, while the main analysis zone is heated to 950°C, in full compliance with ASTM D3175 requirements.

### SPECIFICATIONS

**Maximum Temperature:** 1000°C

**Maximum Continuous Temperature:** 1000°C

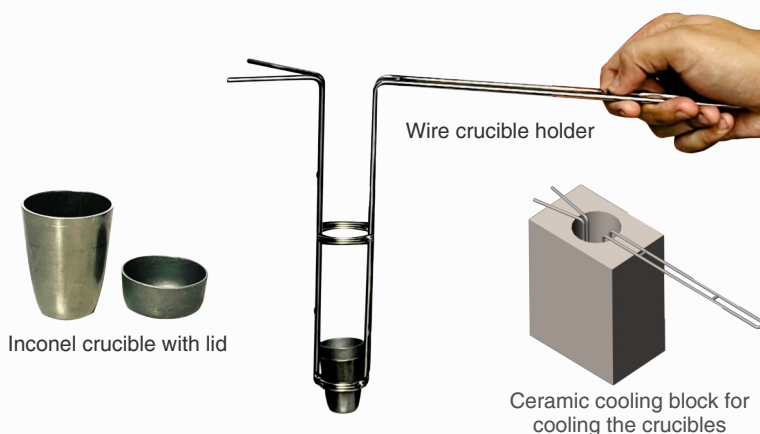
- | Top opening furnace as per ASTM D3175.
- | RCD (Residual Current Device) is fitted to provide enhanced operator safety.
- | Uses Vacuum formed heating elements, Ensuring superior thermal efficiency and uniform heat distribution throughout the chamber
- | Energy efficient, high quality, low thermal mass insulation.
- | A rugged metal sheathed control thermocouple is protected from accidental damage and allows full use of work tube bore.
- | Temperature Sensor: 'N' Type thermocouple.
- | High end Microprocessor PID temperature controller to maintain the required temperature as per ASTM D3175.
- | Wire Crucible holder along with Inconel crucible & lid are supplied as standard.
- | Faster ramp rate, less than 20 minutes from Room temperature to 950°C
- | Special provision for Pre-Heat the sample at 600°C as per ASTM D3175-20 Test method (in VMF/ASTM+Pre-Heat model)
- | **External Dimensions (mm):** H x W x D\*  
470(without furnace lid) x 480 x 357mm

\* Excludes cable entry gland and optional flowmeter control knob



### VMF/ASTM+Pre-Heat

(N<sub>2</sub> gas port with flow meter option)



- | Heated Zone Height: 300mm
- | Working Internal Diameter: 50mm
- | Power Supply: 230V– Single Phase – 50Hz
- | Power Rating: 950 Watts.

### OPTIONAL FEATURES

- | N<sub>2</sub> gas port with a flow meter.
- | Over temperature protection controller.
- | Ceramic Cooling block for cooling the crucibles.

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