



PRODUCT BULLETIN

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MODEL VMF VOLATILE MATTER FURNACE

Offers excellent temperature uniformity, response and recovery times to meet requirements of ISO 562. Lightweight vacuum formed heating elements provide fast heating, typically 20 minutes to 900°C. The maximum temperature is 1000°C. Digital temperature control uses a sophisticated algorithm to ensure fast recovery after loading samples. Calibration ports are provided to allow insertion of thermocouples to be positioned under each crucible. A chimney is located at the back of the chamber. The outward and upward swinging door keeps the hot face away from the operator and the power isolation switch fitted to the door disconnects all power to the elements when the door is opened. An optional separate controller provides for over temperature protection. CE approved



For operation on 220/240V, 1 phase, 50/60Hz, 13 Amps. Chamber dimensions: 100 mm H x 200 mm W x 210 mm D. Over all dimensions: 655 mm H x 435 mm W x 610 mm D.

090K-001	Volatile Matter Furnace (ISO 562)
	Nickel Crucibles for volatile matter furnace.

Furnace Specifications: Overall Dimensions: 20" W x 19" H x 22" D
Chamber Inside Dimensions: 1 3/8" H x 2 1/8" W
Length of Uniform Zone: 1 1/2"
Rated Furnace Temperature: 2800° F
Rated Furnace Power: 3.5 kW
Setpoint Range: 750 - 2800° F, Pre-programmed 32 -c,
Manual Readout Range: 32 -2825° F
Power Requirements: 230 V/Single Phase, 60 Hz, 15 A
or 220 V/1 Ph/50 Hz

Optional Ash Fusion Video Monitoring System

By combining a Ash Fusion Furnace system with a video-camera, monitor, temperature display, and video recorder, it is possible to perform a complete ash fusion test without interrupting the lab technician's duties. A critical moment need never again be missed by a busy operator. The heart of the Ash Fusion Monitor System is a high resolution video camera selected specifically for this severe application. The camera has a burn-proof tube and a telephoto lens with automatic iris control. This camera will yield larger clear images from 1200° F to 2800° F and beyond. The camera is mounted beside the ash fusion furnace on a rigid support, together with a fully adjustable optical mirror assembly. The use of this unique viewing system allows the camera to be mounted in a safe location and also provide for direct viewing of the furnace chamber at all times. For furnace loading, the mirror assembly is moved aside for full chamber access. The use of this unique viewing system allows the camera to be mounted in a safe location and also provide for direct viewing of the furnace chamber at all times. For furnace loading, the mirror assembly is moved aside for full chamber access. The video monitor is an industrial grade, high resolution unit, with 8" picture tube. Clearly visible from a distance, the monitor allows the operator to observe the test progress without going to the furnace. The furnace temperature is displayed on the video monitor, along with the specimen image and the monitor may be placed anywhere, even in another room, and still permit the instant viewing of the specimens and furnace temperature. A video-tape-recorder is supplied permitting a record of the ash fusion being made without operator attention. The tape may then be replayed at any convenient time to review the critical temperatures.

Optional Ash Fusion Accessory Kit

Ash Fusion Test Accessory Package: Base Mold, 2 piece Brass Cone Mold Pointed-Tip Spatula for Cone Mold Triangular File, 6" (12.7) Glassine Mixing Papers, 6"x4.5", 1000/pkg Agate Mortar & Pestle, 100mm OD Roasting Dishes, 5" Gas Cylinder Support Automatic Gas Regulator, two stage for reducing gas. Gold Wire, 24 gauge, 99.98% Nickel Wire, 24 gauge, 99.98% Amber Lat Tubing, 1/4"x1/8" Aluminum Oxide, reagent, ignited powder, 500gm Alundum Refractory Cement 5lb. 130-68 Dextrin, NF, white 1lb. Kaolin, NF powder, 500gm. 8260-68 Petroleum Jelly salicylic Acid reagent, crystal 500gm. Sieve, 3" 200 mesh Bottom Pan for Camel Hair Dusting Brush