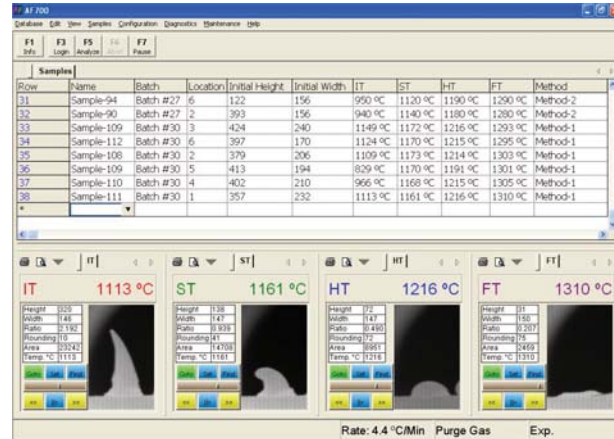
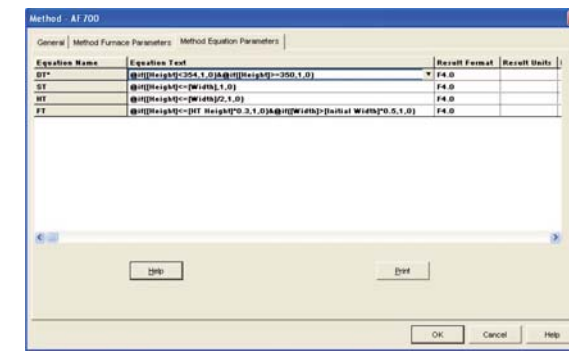
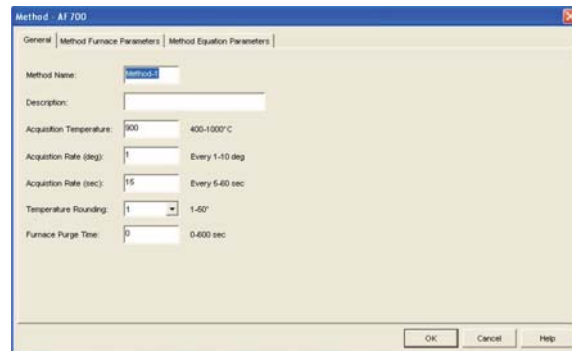
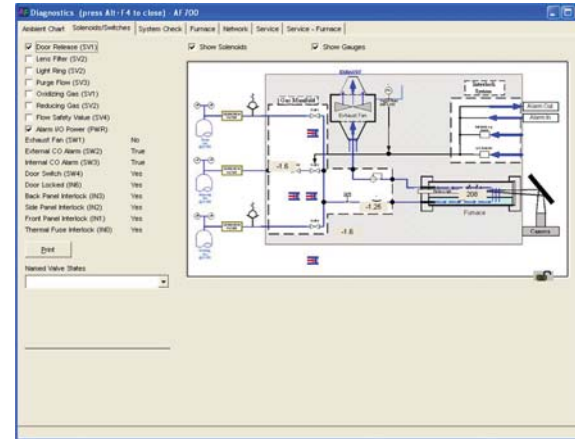


## Easy-To-Use Windows®-Based Operating Software

With unlimited storage space (hard drive, CD-RW, DVD) and compatibility with various Laboratory Information Management Systems (LIMS), this software is designed for seamless interaction with any operator or customer environment. A convenient on-board help manual allows you to quickly access information without leaving your instrument.



Manage data and image history seamlessly



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# AF700 Ash Fusion

This state-of-the-art instrument offers you ASTM-, DIN-, ISO-, and BSI-approved techniques for automatically determining fusibility temperatures in coal and coke ash samples. A reduced footprint, external PC with improved operational controls, automatic critical temperature measurement, digital data archiving ability, integrated safety features, and increased instrument robustness are all a part of the AF700's advanced design.

## AF700 Advantages

**A variety of features have been implemented into the instrument design to answer the needs of our customers.**

### Increased Sample Throughput

Image Recognition Function (IRF)—automatically terminates analysis after the last deformation point has been reached by all samples, increasing throughput and furnace lifetime

Dual Configuration—analyze up to 12 samples simultaneously; utilize both furnaces to analyze samples in oxidizing and reducing atmospheres simultaneously

### Integrated Safety Features

Furnace Blower—provides 160 CFM ventilation/furnace, no additional external ventilation required

Carbon Monoxide (CO) Detector—auditory alarm and gas flows terminated if triggered

Interlocking door and access panels

### User-Friendly Windows®-Based Software Features

IRF provides automatic critical temperature measurement

Archived digital image history for all analyzed samples for easy review on the hard drive, CD-RW, or DVD

Real-time diagnostics

Furnace temperature and atmosphere control

Furnace temperature calibration

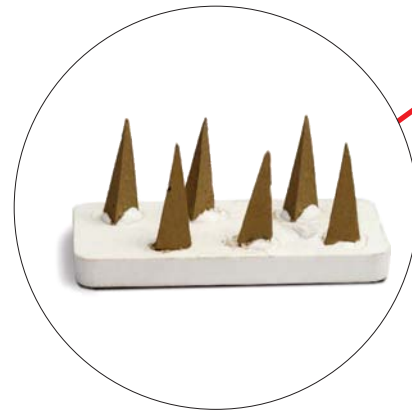
- Pre-loaded second order furnace calibration
- Two-point drift correction on furnace

Customizable method parameters including

- Predefined methods (ASTM, DIN, ISO, BSI)
- Temperature setting and ramp rates
- Atmosphere settings and flow rates
- Camera data acquisition rates
- Sample deformation settings
- Sample reporting settings

### Static Horizontal Furnace

Prepared ash cones are mounted on the ceramic tray and manually inserted to meet two alignment pins located within the furnace.



### Interlocking Door and Access Panels

Instrument door remains locked during analysis.



### High-Endurance Six-Element Heating Furnace

Six 3/4 inch (1.9 cm) heating elements have well-balanced strength and power load capacity resulting in a durable long life furnace that requires less maintenance.

### Integrated Camera

A stable, permanently mounted built-in camera isolated from the high temperature area.



### Easy-to-Use Windows®-Based Environment

An external PC with Windows-based operating system; controls up to two furnaces from one computer.



### LED Light Ring

Enables accurate low temperature deformation point measurement.

### Integrated Viewing System

Mirrors are consistently aligned with camera and furnace.

### Integrated Blower

A built-in blowing system provides 160 CFM ventilation/furnace. No additional external hood is required.

