

Ash Fusion Determinator

EATC17

Data Sheet



- ▶ The EATC17 Ash Fusion Determinator is the high temperature floor-mount model is specifically designed for the precise determination of fusibility temperatures of coal ash, coke ash, and biomass ash samples.
- ▶ This instrument is fully compliant with ISO, ASTM, CEN/TS, DIN, and CEN/TR test methods.

- | Temperature Range: Up to 1650°C
- | Work Tube dimensions: 86 x 76 x 675mm
- | Programmable Temperature ramp rate: Up to 12°C/min
- | Maximum Sample Load: 6 samples per analysis
- | Typical Analysis Time: 4 hours per cycle (varies based on ramp rate & temperature range)

Complies with Standards:

- ASTM D1857, ASTM E953, AS 1038-15
- BS ISO540, BS ISO21404
- CEN/TS 15370-1, CEN/TR 15404:2010
- DIN 51730, ISO 540, ISO 21404
- GB/T 219-2008, GOST 2057-94

▶ Automatic Temperature Detection:

The EATC17 automatically determines the following four critical temperatures:

- Initial Deformation Temperature (IDT)
- Softening Temperature (ST)
- Hemispherical Temperature (HT)
- Fluid Temperature (FT)

▶ Gas requirements:

| Integrated two gas flow meters to enable automatic switching of the gases based on the selected test conditions, such as oxidation or reduction.

| Gas Requirements:

- Purge: N₂ or CO₂
- Oxidizing: Air, CO₂ or O₂
- Reducing: CO - CO₂ or H₂ - CO₂

Note: At the time of ordering, the user must specify the required gases for their analysis, choosing either or CO/CO₂ for the reduction mode.

Elite Thermal Systems Limited

Units F1-F2 and F3, Welland Business Park,
Valley Way, Market Harborough,
Leicestershire. LE16 7PS, UK

Tel: +44 (0)1858 469834

E-mail: contact@elitefurnaces.com

Website: www.elitefurnaces.com



EATC17

- | Ventilation: Forced air ventilation
- | Operating Temperature: 5°C to 40°C
- | Relative Humidity: 20% to 80% (non-condensing)

▶ Electrical & Power Requirements:

- | Power Supply: 380-415V, 50/60 Hz, Two-phase, 32A
- | Overtemperature Protection: Digital with single high alarm relay

▶ Required PC Specifications:

- | Processor: Intel Core i3 or i5
- | Storage: 512GB HDD or SSD
- | Memory: Minimum 4GB RAM
- | Operating System: Windows XP or Higher
- | PCI slots: Minimum 1, PCIe slots: Minimum 1, RS232 Ports: 2