5E-AF4115
Ash Fusion Determinator

Standard Configuration

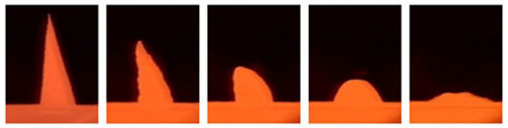
Computer
Printer
Main analyzer
A/C adapter
Ash cone plate
Activated carbon
Graphite
Standard Reference Material(GBW)
Dextrine
Magnesia
Combustion cup
Duab kit
Ash cone module
Gasket kit
Tool kit

Optional Configuration

15 samples ash cone plate (ISO/CEN)
Biomass ash cone mould

Application

5E Series Ash Fusion Determinator automatically monitors ash cone deformation temperatures in coal ash, coke ash, biomass ash and mold powders automatically, which are critical to proper boiler functioning and to avoid slagging and fouling.



Automatically monitor analysis process and provide high-definition image of experiment by industrial camera.

Features

Unique Structure for 15 Samples

15 samples can be tested per batch, which greatly improves the analysis efficiency.

High Automation

1. Optimized sample-loader with high reliability.
2. Auto power-off after analysis, shorten operator's stand-by time and prolong service life of high temperature parts.
3. Patented positive pressure dust removal device ensure zero maintenance of heat insulation glass.
4. Optional Analysis Atmosphere: CO and CO_2 or H_2 and CO_2 mixed gas, or carbon envelope method can be selected for weak oxidizing atmosphere, strong oxidizing atmosphere, and weak reducing atmosphere.
5. Friendly human-computer interaction interface and multi-point capacitive touch technology provide user an excellent experience.

High Precision

1. 3.2 Mega-pixel professional camera and self-developed intelligent image recognition algorithm can automatically recognize DT, ST, HT, and FT with reliable and accurate analysis result.
2. AF4115 Ash Fusion Determinator owns 4 Spectrum Lighting Analysis Technologies, being in the leading position of the industry, which can identify the characteristics of the ash cone from normal temperature to the maximum temperature.

High Safety

1. Patented furnace design with hermetic structure, quantitative gas tightness test could be performed inside chamber.
2. Automatically check the gas leakage with auditory alarm and gas flow terminated if triggered.
3. Real-time monitor the exhaust discharging to improve the working efficiency of fan.

Specification

Model	5E-AF4115	5E-AF4105	5E-AF4000
Conforms to Method	ASTM1857, UNI CEN/TS 15370, ISO 540, GB/T 219, PD CEN/TR 15404	ASTM1857, ISO540,UNI CEN/TS 15370 and GB/T 219	
Max. Sample Loading	15 samples	5 samples	5 samples for ASTM & GB standard 7 samples for ISO standard
Max. Temp	Up to 1600˚C		
Temp. Control Precision	±1˚C		
Image Frame	1 frame per 2˚C		
Heating Rate	4˚C/min-15˚C/min adjustable		
Analysis Atmosphere	Oxidizing Atmosphere / Reducing Atmosphere		
Power Supply	Single phase, AC220±10%, 50/60Hz, ⩽3. 8 kW	Single phase, AC220V±10%, 50/60Hz, ⩽3.2 kW	Single phase, AC220±10%, 50/60Hz, ⩽2. 6 kW
Net Weight	120kg	130kg	65kg
Dimension(L×W×H)	600mm×520mm×1170mm	585mm×530mm×1180mm	480mm×470mm×740mm