

Mobile Fire Assay Module

SKU: AVI-FAM-001 · 25-Place Dual-Furnace Fire Assay System

25 Samples/Batch CAPACITY	1,150 °C FUSION TEMP	900–980 °C CUPELLATION	~8 Weeks LEAD TIME
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PRODUCT OVERVIEW

The AVI-FAM-001 is a complete laboratory-scale precious metals assay system with a 25-place fusion furnace (1,150°C) and a 25-place cupellation furnace (900–980°C). Includes refractory loader trays, HEPA dust collector, and stainless-steel hood with packed-bed wet gas scrubber for SO₂ and lead fume capture. Designed for commercial assay labs, mining operations, and field sites.

MODULE SUMMARY

SKU	Item	Qty	Key Spec
AVI-FF-25CR	Fire Assay Fusion Furnace	1	25-place · 1,150°C · 18 kW
AVI-FF-25CU	Cupellation Furnace	1	25-place · 980°C · 15 kW
AVI-CLT-25	Crucible Loader Tray	2	5x5 grid · 1,150°C rated
AVI-CUT-25	Cupel Load Tray	2	5x5 grid · 1,000°C rated
AVI-DC-SML	Compact Dust Collector	1	HEPA · 500–1,000 m ³ /h · 2.2 kW
AVI-GS-HOOD	Gas Scrubber + Hood & Duct	1	SO ₂ , Pb fume, HF · 2,400 mm hood

FUSION FURNACE — AVI-FF-25CR

Dimensions	1,000 × 800 × 1,400 mm
Chamber Volume	~120 L
Max Temperature	1,150 °C
Temperature Control	PID ±1 °C
Capacity	25 crucibles
Heating Elements	Silicon carbide
Electrical	415V 3-phase / 18 kW
Compliance	CE / AS/NZS 3000

CUPELLATION FURNACE — AVI-FF-25CU

Dimensions	1,000 × 800 × 1,400 mm
Operating Temperature	900–980 °C
Capacity	25 cupels
Air Supply	Controlled bleed valve
Electrical	415V 3-phase / 15 kW
Compliance	CE / AS/NZS 3000

APPLICATIONS

Gold, silver, and platinum group metal (PGM) fire assay for commercial laboratories, mining operations, metallurgical facilities, universities, and research centers. Complies with modern laboratory safety and environmental standards.