

Zeeman Mercury Analysis System

RA-915F

Direct mercury measurement in coal, ash, FGD slurry, and other samples with complex matrices in power plants, incinerators, and cement plants

Principle of Operation

- ▶ Thermal decomposition by atomic absorption spectrometry with Zeeman background correction

Applications

- ▶ Direct determination of mercury concentrations in solid and liquid samples, such as:
 - ▶ Coal, fly ash, gypsum
 - ▶ Crude oil and naphtha
 - ▶ Wastewaters and sludge
 - ▶ Soils and sediments
 - ▶ Food and biological materials
 - ▶ Cosmetics
 - ▶ Other



Features and Benefits

- ▶ Direct mercury determination in complex matrices in 90 seconds
- ▶ Highest selectivity and lowest detection limit on the market
- ▶ No sample preparation or conditioning required
- ▶ Catalyst, compressed gas cylinder or gold trap consumables required
- ▶ Broad dynamic measurement range (> 5 orders of magnitude)
- ▶ No memory effect, matrix independent
- ▶ NIST traceable calibration
- ▶ Rugged design for laboratory and field
- ▶ Suitable for direct analysis of gold traps per ASTM 5964 and crude oil per EPA Method 7473 (SW-846)





Specifications

Detection limit	Ladles volume	Upper limit of the measurement range of concentration for a 20mg sample	Analysis time	Power supply
0.5-3µg/kg (ppb)	1.2 / 2.5 mL	200 mg/kg	90 sec	110-242 VAC, 50/60 Hz

Measurement Unit

Dimensions (LxWxH)	300x260x130 mm
Weight	4.0 kg

Sampling Unit

Dimensions of power supply unit (LxWxH)	380x260x130 mm
Weight of power supply unit	10 kg
Dimensions of thermal chamber unit and optical unit (LxWxH)	350x350x120 mm
Weight of thermal chamber unit and optical unit	7.5 kg

CALL 1 888 876 2611 FOR MORE INFORMATION