

Model 2600H – Ultra Trace Mercury Analyzer

Rev. 081126

Dedicated analyzer for a variety of ultra-trace mercury methods:

- Waters & Solids (US EPA Methods 1631 & 245.7)
- Ambient Air (US EPA Method IO-5)
- Natural Gas (ASTM D-6350 or ISO 6978-2)
- Process gases

Typical MDL < 1 ng/m³

Sample path optimized for difficult matrices

The Tekran® Model 2600H Mercury Analyzer is designed to accommodate a variety of sample matrices using gold-trap preconcentration. The system contains an atomic fluorescence detector, dual-stage thermal desorption, and a data acquisition & control system. A Windows-based PC controls the entire analysis process, acquiring the detector output to calculate final results.



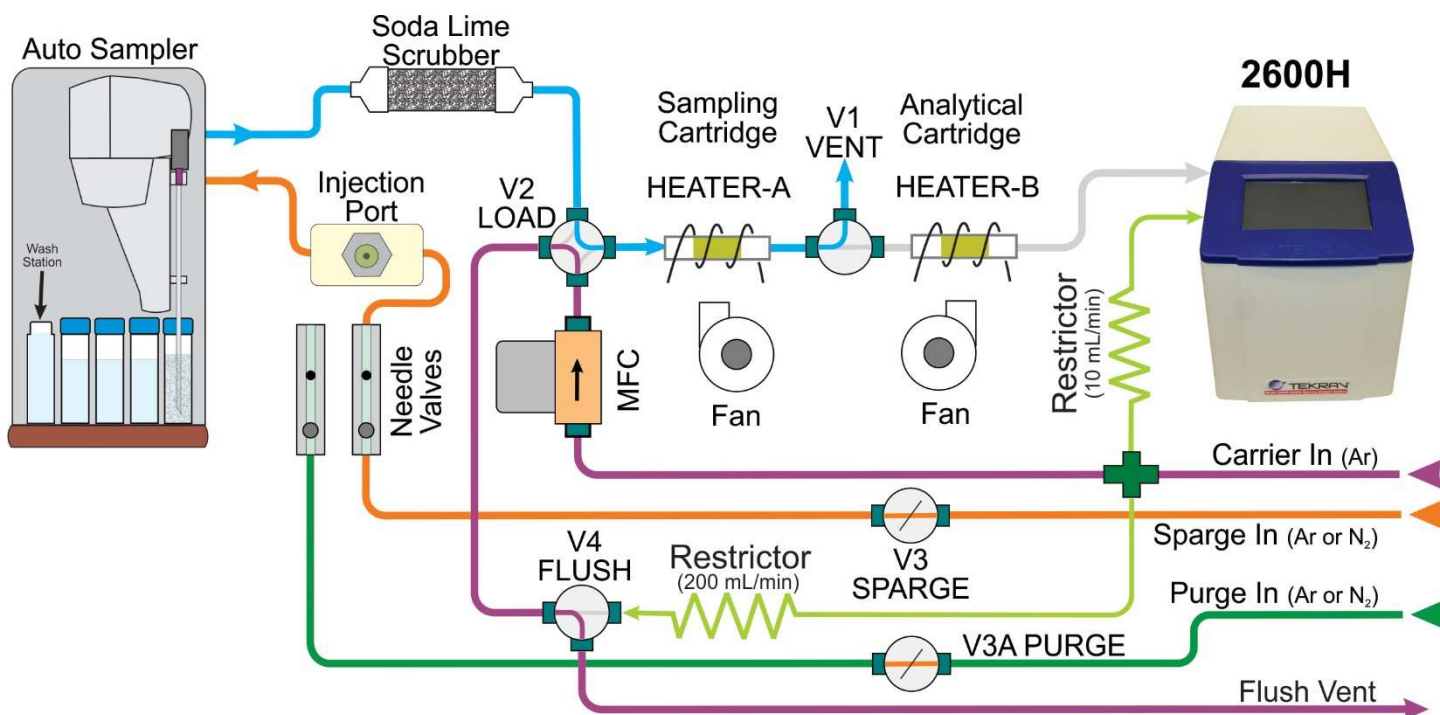
Features

- Desorbs industry standard ¼" OD x 5" to 6" long friction trapping cartridges.
- Ultra-sensitive Atomic Fluorescence (AF) detector
- Water detection system protects sensitive system components
- Large HMI screen provides real-time system hardware feedback
- Dual stage gold pre-concentrator/thermal desorption:
 - Continuously variable heaters allow ramped heating
 - High-velocity cooling fans provide faster cycle time
 - PEEK manifold and valves maintain sample path cleanliness
- Precision mass flowmeter gives superior long-term stability
- Auto carrier shutoff to conserve carrier gas
- 24-bit A/D converter provides wide dynamic range
- Controlled by Window-based PC through single USB port
 - Notebook PC allows portable operation
- Automated desorption cycle with fully programmable cycle parameters
- Improved access to detector block and other hardware
- Final results calculation directly in user-selected units such as ng/m³, µg/m³ or ng/trap

Applications

- Waters and digested solids (US EPA Methods 1631 and 245.7)
- Ambient Air Samples (US EPA IO-5)
- Natural Gas (ASTM D-6350 or ISO 6978-2)
- Process Gas Sampling

Flow Diagram



Specifications

Physical

Size: 11.5"H x 10"W x 18"D
 Weight: 25 lb (11.4 kg)
 Electrical: 100-120 or 220-240 VAC,
 50-60 Hz. 250 VA max.

Environmental

Operating Range: +15 - +30 °C
 Storage Temp: +5 - +45 °C
 Humidity: 10 - 95% (Non-condensing)

Detector

Detection Limit: < 0.1 pg Hg
 Linearity: > 10⁵
 Carrier Gas: Argon UHP Grade
 Flow range: 0 - 500 mL/min (MFC)
 Supply Pressure: 30-50 PSI
 Fittings: 1/8" Compression fittings
 Warm up time: < 30 min

Ordering Information

The **Model 2600H** includes the following components and accessories.

- Control Unit
- User Quick Start Guide
- Soda Lime trap
- H/W, S/W and methods documentation
- One pure gold analytical cartridge
- Tek-MLS Windows based control software
- One gold-coated quartz field cartridge
- Mercury exhaust scrubber

Options

- Option 001 Extra gold-coated quartz sampling cartridge
- Option 201 Dell desktop PC for control of system
- Option 202 Dell notebook PC for portable applications

Due to continuing development, all specifications are subject to change.