

Innovation Starts In The Lab

Tekran® Series 2700

Automated Methyl Mercury Analysis System

- *Improves Laboratory Efficiency*
- *Intuitive & Reliable Software Interface*
- *Fully Integrated, Self Contained & Compact*
- *Remote Operation & System Monitoring*
- *Free Lifetime Technical & Analytical Support*



Ultra Sensitive Measurement
MDL of 0.004 parts per trillion (ppt)

A Superior Design Offers **Unsurpassed Analytical Performance & Flexibility**



Ben Fertig, IAN Image Library

The Tekran® 2700 has been designed to give analytical laboratories and researchers an efficient alternative to the time-consuming and complex EPA 1630 manual method.

Tekran® Instrument Corporation introduces the new Tekran® Series 2700 Methyl Mercury Auto-Analysis System. The 2700 offers a fully integrated, self-contained compact unit based on atomic fluorescence detection and operated via state-of-the-art software.

Superior Atomic Fluorescence Detector

The 2700's fluorescence detector features all new electronics, flow cell and optical filter to improve the already extraordinary sensitivity, stability and selectivity. The UV lamp is temperature controlled. An optical feedback arrangement ensures constant lamp intensity over the course of the run and from day to day. The AF detector has an argon optical path purge and highly sensitive photomultiplier. No other mercury detector incorporates all these features.

Expert Support

The Series 2700 comes with a Quick Start Guide that will have you up and running in minutes. The system enclosure has been specially designed to allow easy access to all serviceable components. Ask about our on-site setup and training capabilities. We offer remote system evaluation, optimization and testing along with unlimited telephone/email support in the event you require assistance. Your 2700 will be supported by a full team of Tekran® application scientists, researchers and engineers with a combined 80+ years of expertise in mercury analytical systems.

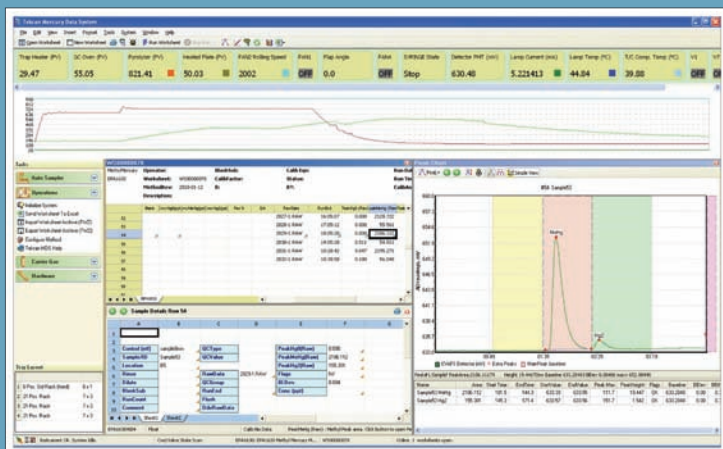
Designed for Flexibility

The 2700 comes ready to operate with a standard EPA Method 1630 compliant analytical setup. However the flexibility of the 2700 is unsurpassed allowing customization for specific applications. The fully-integrated gas chromatography (GC) oven is programmable and accepts both capillary and packed GC columns. Oven temperature ramping and a capillary GC column yield extremely well defined peaks. Fully programmable analysis cycle parameters provide researchers an unparalleled ability to create modified and experimental analytical methods. It will also interface seamlessly with other analytical instruments.

Typical Applications:

- Distilled water samples by EPA Method 1630
- Natural water samples by direct ethylation
- Fish, sediments and biota samples
- Dimethyl mercury in landfill gas
- Examination of other organo-Hg species
- Isotopic ratios in combination with ICP-MS

Fast & Accurate Software Takes Performance to a New Level



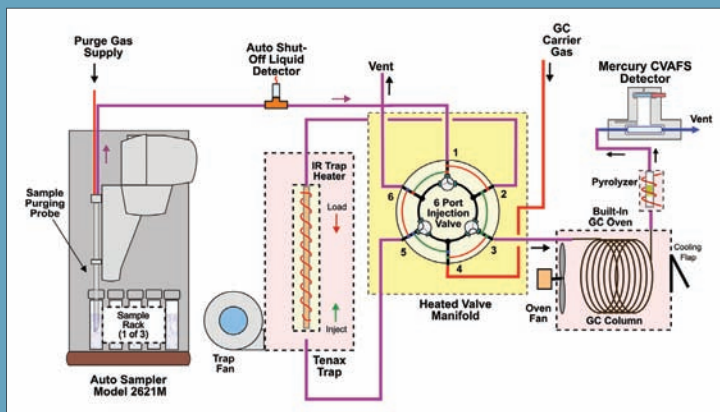
Tekran's proprietary software is included with every 2700 Auto-Analyzer.

Tekran 2700 Software Features:

- Based on highly regarded, intuitive Tek-MDS-2 platform
- Superior chromatographic peak processing
- Will export data in multiple file formats
- Software access to all hardware settings
- Full monitoring / charting of all system processes
- EPA Method 1630 comes standard
- Fully programmable analytical sequences for custom applications
- Automated troubleshooting and flushing sequences

Tekran 2700 Auto-Analyzer Features:

- Highly sensitive, ultra-stable CVAFS Hg detector
- MDL of 0.004 ppt (25 mL Sample)
- Built-in GC oven (isothermal or ramped heating)
- IR trap heating and active cooling
- In-vial gas purge; single trap
- No liquid transfer; carryover eliminated
- Sensor to halt system if water enters gas lines
- Heated valve manifold prevents potential losses
- Designed to interface with ICP-MS



Durability Through Robust Hardware Design

2700 Methyl Mercury Analyzer

Key Specifications:

- | | |
|--------------------------------|------------------------|
| • Detector Type | CVAFS |
| • Method Detection Limit | 0.004 ppt (ng/L) |
| • 2700 Footprint | 14" X 20" (35 X 51 cm) |
| • 2621-M Autosampler Footprint | 11" X 19" (28 X 48 cm) |
| • Power Requirements | 1625 Watts (Max) |
| • Sample Run Time | < 7 minutes |
| • Chromatography Column | Capillary or Packed |

2750 Methyl Mercury Distillation System

Key Specifications:

- Space for 30 simultaneous EPA 1630 distillations
- Actively cooled water bath - no ice required
- Programmable timer for automated system shutoff
- Modular system allows multiple arrangement options
- Small footprint (only 26" W by 22" D)
- Precision PID temperature controlled heating block



Tekran 2750 Methyl Mercury Distillation System



For North American Sales & Service, please contact us at:

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