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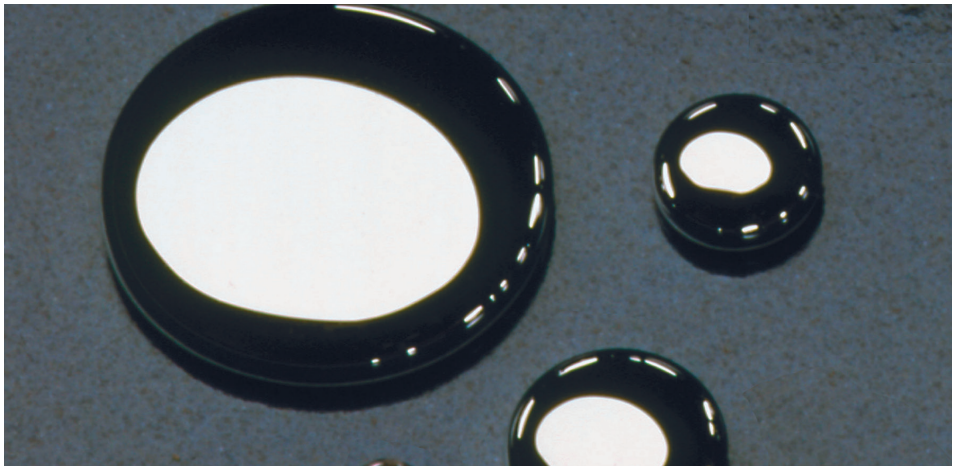
PRODUCT SPECIFICATIONS

Model 80*i* Mercury Analyzer

A direct measurement cold vapor atomic fluorescence analyzer

The Thermo Scientific™ Model 80*i* Mercury (Hg) Analyzer is one of the four major components of the Mercury Freedom System.



Features

- Proprietary cold vapor atomic fluorescence method
- Reports elemental, ionic, and total mercury
- True, real-time monitoring means no batch processing
- Direct measurement eliminates carrier gas
- High sensitivity allows greater dilution ratios

Introduction

The Thermo Scientific Model 80*i* analyzer uses an advanced cold vapor atomic fluorescence technology. This technology enables the Model 80*i* analyzer to provide continuous sample measurement, with no additional gases or accumulations required- and virtually no interference from SO_2. High sensitivity allows high sample dilution reducing moisture, heat, and interfering pollutants.

Designed to meet the provisions of U.S. EPA 40CFR Parts 60 and 75, the Mercury Freedom System provides a complete mercury monitoring solution that reports elemental, ionic, and total mercury in exhaust stacks from both coal-fired boilers and waste incinerators.

The Model 80*i* analyzer also offers the benefits of the iSeries gas analyzer platform. The iSeries platform features flexible communications, increased serviceability, and an easier to use interface. Ethernet connectivity provides to download measurement information directly from the instrument without having to be on site. Captive hardware and slide-apart modules allows easy access for service and periodic maintenance.

Easily programmable short-cut keys allow you to jump directly to frequently accessed functions, menus or screens. The larger interface screen can display up to five lines of measurement information while the primary reporting screen remains visible.

Thermo Scientific™ 80*i* Mercury Analyzer

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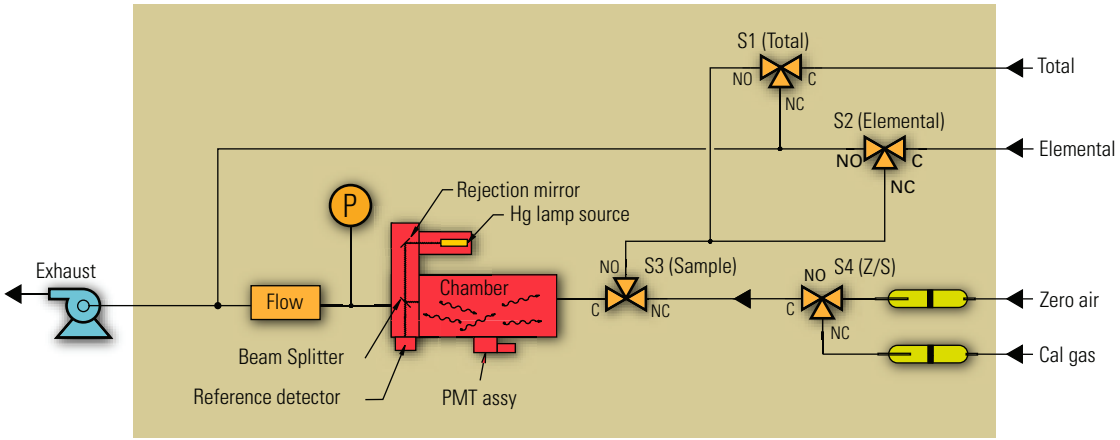
Thermo Scientific Model 80*i* Mercury Analyzer

Specifications	
Hg measurement range	0-800 ug/m³ (effective range before dilution)
Preset ranges	1.5, 3, 6, 15, 30, 60, 150, 300 ug/m³
Zero noise	1 ng/m³ (300 second average)
Lower detectable limit	2 ng/m³ (300 second average time) 0.4 ng/m³ with nitrogen as a carrier gas
Zero drift (24 hour)	< 5 ng/m³
Response time	30 seconds (10 second average time) 110 seconds (60 second average time) 320 seconds (300 second average time)
Linearity	+/- 1% full scale
Sample flow rate	0.25 LPM per channel
Operating temperature	15° – 35° C (may be safely operated in the range of 0° – 45° C)
Power requirements	100 VAC, 115 VAC, 220-240 VAC +/-10% @ 275W
Size and weight	16.75" (W) × 8.62" (H) × 23" (D), 49 lbs. 425 mm (W) × 219 mm (H) × 584 mm (D), 22.2 kg

Flow Diagram: Model 80*i* Hg Analyzer



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