



Comparing ethylene oxide (EtO) monitoring solutions

The Thermo Scientific™ MAX-iR™ OE-FTIR Gas Analyzers provide the only total solution that fully meets your needs and helps ease compliance with the ethylene oxide NESHAP* for commercial sterilizers and PID** for workplace exposure.

Optically-enhanced Fourier transform infrared (OE-FTIR) spectroscopy vs. cavity ring-down spectroscopy (CRDS) system comparison

	ThermoFisher SCIENTIFIC	
	Thermo Scientific OE-FTIR spectroscopy systems	Cavity ring-down systems
Performance criteria for EtO monitoring systems	Meets new EPA updates to ethylene oxide NESHAP and PID	Meets new EPA updates to ethylene oxide NESHAP and PID
Ease of deployment	Turnkey with fully automated compliance reporting Real time custom alerts	Integrated system
Measurement range	Dynamic calibration range Quantification of inlet and outlet concentrations without dilution	Upper calibration range is limited by path length Requires dilutions to measure inlet concentrations, increasing measurement error
System design and field experience	In-house design and manufacture of full system hardware and software Proven field history since 2019	Minimal field experience Newly released systems in 2023
Service and support	Team of experienced field service and applications specialists	Limited installation, service and support capabilities
Robustness	Proven reliability regardless of sample contamination	High finesse mirrors susceptible to signal loss, especially in hot/wet applications
Operational costs	Minimal system preventative maintenance	High cost to upkeep mirrors in CRDS analyzer in addition to system preventative maintenance

* National Emission Standards for Hazardous Air Pollutants

** Proposed Interim Decision

Learn more at thermofisher.com/etomonitoring

thermo scientific

For research use only. Not for use in diagnostic procedures. For current certifications, visit thermofisher.com/certifications

© 2024 Thermo Fisher Scientific Inc. All rights reserved. All trademarks are the property of Thermo Fisher Scientific and its subsidiaries unless otherwise specified. FL54643_E 06/24M