THM-RR™

Rapid Response Benchtop THM Analyzer

The rapid response benchtop THM-RR™ analyzer provides fast, reliable and accurate analysis of trihalomethane (THM) concentrations. With THM-RR, data on individual and Total THM levels are available in 25 minutes with accuracy down to 0.3 ppb.

THM-RR™ Applications

For water treatment operators, consulting engineers and THM treatment system vendors, the THM-RR delivers valuable THM performance data far faster than external laboratories. The benefits of using the THM-RR analyzer include:

- Ensure cost-effective compliance with disinfection by-products regulations
- Characterize THM problems in a timely, comprehensive and accurate manner
- Undertake rapid evaluation of THM treatment pilot systems, minimizing cost and time
- Undertake accurate, cost effective and timely acceptance testing of a newly installed THM treatment system

THM-RR™ Features

- Automated operation
- Easy to use
- Results in 25 minutes
- Auto sampler provides rapid unattended analysis for up to 12 samples

Comprehensive Data

- Accuracy to 0.3 ppb or ± 5%
- Sampling frequency 1 per hour
- THM speciation data provided
- Integrates with SCADA

The THM-RR™ matches labs for accuracy and reliability

Operational Optimization

- Replaces reliance on external laboratories for performance control
- Gives operators confidence in real-time THM levels to ensure regulatory compliance

Proven with Leading Engineers & Water Utilities

"The data the THM-RR generates shows changes within our treatment plant that previously we could not effectively quantify."

Dr. Manny Ojo Environmental Lab Manager Metro Nashville Water Services

"We have used the THM-RR with clients to help identify opportunities to minimize THM formation while optimizing plant operations and treatment."
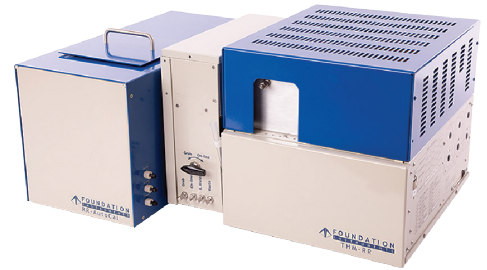
Ryan Priest Hazen and Sawyer

"Outstanding installation, service and support."

R. Easley Director of Water Quality and Operations Central Arkansas Water

"In 1 year, we recouped the THM-RR cost from reduced chemical usage"

J.C. York Plant Superintendent

ams

THM-RR™ Specifications

PERFORMANCE

Quantification Range		
Total THM (TTHM):	0.12 – 240 ppb	
Chloroform (CHl$_3$):	0.06 – 60 ppb	
Bromodichloromethane (CHBrCl$_2$):	0.03 – 60 ppb	
Dibromochloromethane (CHBr$_2$Cl):	0.03 – 60 ppb	
Bromoform (CHBr$_3$):	0.1 – 60 ppb	
Accuracy and Repeatability @ 20 ppb	**Mean % Recovery**	**%RSD**
Total THM (TTHM):	99%	1%
Chloroform (CHl$_3$):	97%	2%
Bromodichloromethane (CHBrCl$_2$):	101%	2%
Dibromochloromethane (CHBr$_2$Cl):	97%	1%
Bromoform (CHBr$_3$):	103%	2%
Accuracy and Repeatability @ 0.3 ppb	**Mean % Recovery**	**%RSD**
Total THM (TTHM):	83%	2%
Chloroform (CHl$_3$):	85%	2%
Bromodichloromethane (CHBrCl$_2$):	81%	2%
Dibromochloromethane (CHBr$_2$Cl):	77%	1%
Bromoform (CHBr$_3$):	87%	5%
Sample Size	20 mL	
Average Sample Time	25 minutes	
Sample Analysis Rate	1 sample per hour	

OPERATING ENVIRONMENT

Instrument	5–35 °C (41–95 °F)

FACILITY REQUIREMENTS

Compressed Nitrogen Gas	Purity grade of "5.0" or 99.999% (ultra high purity)
Water	"THM free" water, reagent water or distilled water
Electrical	120 Vac, 10 A, ~50/60Hz

HARDWARE

Physical Size (With laptop on side)	18" W x 16" D x 13.5" H (36" W x 16" D x 13.5" H)
Weight	55 lbs (25 kg)

WARRANTY

Service	Annual service contract 1 year warranty

*Note- specifications are subject to change without notification.