HAA-RR™



Rapid Response Benchtop HAA Analyzer

The rapid response benchtop HAA-RR™ analyzer provides fast, reliable and accurate analysis of individual and total HAA concentrations.

For water treatment operators, consulting engineers, and HAA treatment system vendors the HAA-RR delivers valuable HAA performance data faster than external laboratories.

HAA-RR™ Features

Automated Operation

- · Easy to use
- · Results in 80 minutes
- Optional auto sampler provides rapid unattended analysis for up to 12 samples
- Operate in on-line or grab sample analysis modes

Comprehensive data

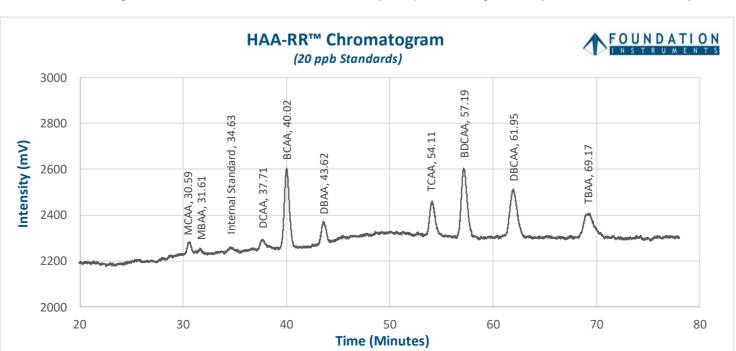
- Sampling frequency of 1 sample per 80 min
- HAA speciation data provided for HAA5/HAA9
- · Integrates with SCADA

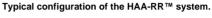
Operational Optimization

- · Replaces reliance on external laboratories for performance control
- Gives operators confidence in real-time HAA levels to ensure regulatory compliance
- Enables near-real time tracking and response for HAA control

HAA-RR™ Applications

- Water system operators seeking to ensure cost-effective compliance with DBP regulations
- Consulting engineers working to characterize HAA problems in a timely, comprehensive and accurate manner
- · Utilities and engineers looking to undertake rapid evaluation of HAA treatment pilot systems, minimizing cost and time
- · Utilities looking to undertake accurate, cost effective and timely acceptance testing of a newly installed HAA treatment system









HAA-RR™ Specifications

Performance					
Approximate Quantification Range					
HAA5	Monochloroacetic acid (MCAA) Monobromoacetic acid (MBAA)	CH ₂ ClCO ₂ H CH ₂ BrCO ₂ H	3 – 60 ppb 15 – 60 ppb		
	Dichloroacetic Acid (DCAA) Dibromoacetic Acid (DBAA) Trichloroacetic Acid (TCAA)	CHCl ₂ CO ₂ H CHBr ₂ CO ₂ H CCl ₃ CO ₂ H	8 – 60 ppb 5 – 60 ppb 3 – 60 ppb		
HAA9	Bromochloroacetic Acid (BCAA) Bromodichloroacetic Acid (BDCAA) Dibromochloroacetic Acid (DBCAA) Tribromoacetic Acid (TBAA)	CHBrClCO ₂ H CBrCl ₂ CO ₂ H CBr ₂ ClCO ₂ H CBr ₃ CO ₂ H			
Sample Size		20 mL			
Average Sample Time		80 minutes			

Operating Environment	
Temperature	5 – 35 °C (41 – 95 °F)

cility Requirements	
Water	"HAA free" water, reagent water or distilled water
Electrical	120 Vac, 10 A, ~50/60Hz

lardware		
Physical Size	24" W x 20" D x 24" H	
Weight	55 lbs (25 kg)	

Varranty & Service		
Options	Annual Service Contract 1 year Warranty	
* Note- specifications are subject to change without notification.		