ENGINEERING SPECIFICATIONS

TOC Systems Semi-Automatic Benchtop TOC

Model/Name	TOC Systems Semi-Automatic Benchtop TOC Analyzer	Notes
Analysis Method	Semi-Automatic Benchtop TOC/Non-Dispersive Infrared (NDIR) CO ₂ Detection	
Analytes Measured	Total Organic Carbon; Total Carbon; Total Inorganic Carbon; Non-Purgeable Organic Carbon.	
Detector Type (CO ₂)	NDIR (solid state; no moving parts; computer- controlled; non-reflective sample cell-impervious to corrosion and guaranteed for 5 years)	See NDIR vs Conductivity Chart
Control/Data Handling	Internal Microprocessor, Menu Prompting	,

	Manual Injection Sparger. Manual Syringe Injection	
	into UV/Persulfate Reactor and High Temperature	
Sample Introduction	Combustion Reactor (option)	
Sample Handling	Up to 400 Microns Suspended Solids	
Measurement		
Specifications		
Measurement Range (mg/L)	0-10 thru 0-1000	
Accuracy/Repeatability (%)	+/-3	Dependant on
		Manual Sample
		Injection precision
Coming Con Flow (not (noin)	200 ms I /many Community Community of Many Flavor	
Carrier Gas Flow (mL/min.)	300 mL/max - Computer Controlled Mass Flow	
	Controller CO ₂ & HC - FREE AIR, OR O ₂	
	15 +/- 2 PSI	
Average Analysis Time		
Average Analysis Time (minutes)	TC - 2 minutes	
(minutes)	1C - 2 minutes	Can perform
	TOC - 3 minutes sparging/single sample	Multiple Sample
	100 - 3 minutes sparging/single sample	Sparging to
		Conserve time
		Conscive time
Display	LCD	

UTILITIES Required

Power 100/240 VAC

50/60 HZ. 10 Amp Service

Carrier Gas CO₂ & HC - free air or O₂ (300 mL/minute-max.);

15 +/- 2 PSI

Reagents 1M Sodium Persulfate Solution Laboratory Grade

10% Phosphoric Acid Solution Laboratory Grade

Calibration Standards

D.I. Water

Sample Drain gravity/air break

Environment Operating Temperature: 10° - 50°C

50° - 122°F

Construction

Enclosure Stainless Steel & Epoxy Powder Coated Aluminum

Dimensions (HxWxD) 51 x 58 x 25 (cm)

20 x 23 x 10 (in)

Mounting Benchtop

Weight | 14 Kg

30 Lbs

Complying with all International Standards, such as:

DIN-EN 1484, DIN-ENV 12260, DIN 38409-H3,

ISO 8245, Standard Method 5310B, Standard Method

5310C, Standard Method 5310D, USEPA 415,

USEPA 9060, ASTM D5173, EN 13137

Options

Oxygen Generator (electricity only)

Eliminates Gas
Bottles for up to 5
analyzers. Plant Air
Not Required. (For
indoor/climate
controlled

environments only)

(All performance specifications have been verified in a controlled laboratory environment. Actual field performance may vary with application. Measuring range and detection limits depend on the method, injection volume, vessel purity, chemicals and gases used, and the qualification of the operators.)