ENGINEERING SPECIFICATIONS

TOC Systems Automatic Benchtop TOC

Model/Name	**TOC Systems Automatic Benchtop TOC Analyzer**	**Notes**
Analysis Method	All methods in single Analyzer: UV/Heated Persulfate, High Temperature Combustion, Ozone Promoted/Hydroxyl Radical, Heated Persulfate, Ultra-Pure (UV - NDIR)	Operator selectable – No Hardware Change
Analytes Measured	Total Organic Carbon; Total Carbon; Total Inorganic Carbon; Non-Purgeable Organic Carbon; TOC-True (including purgeable Organics)	
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	Microsoft Windows PC	

Sample Introduction	Digital Injection/Auto-Sampler	
Measurement Range (mg/L)	0.100 - 50,000	Dependent on Chosen Method
Accuracy/Repeatability (%)	≤5% RSD or 2% FS (whichever is greater)	
Carrier Gas Flow (mL/min.)	300 mL/max - Computer Controlled Mass Flow Controller CO_2 & HC - FREE AIR, OR O_2 15 +/- 2 PSI	Bottled gas preferred for low ppm/ppb measurements
Average Analysis Time	10 minutes	
Outputs	RS-232	
Display	Flat Color Screen (external PC)	
Data Storage	External PC	
UTILITIES Required		
Power	100/240 VAC 50/60 HZ. 15 Amp Service	

Carrier Gas	CO_2 & HC - free air, or O_2 (300 mL/minute-max.); 15 +/- 2 PSI	
Reagents	Prepackaged Sodium Persulfate Phosphoric Acid Calibration Standards D.I. Water	
Sample Drain	gravity/air break	
Environment	Operating Temperature: 10° - 50°C 50° - 122°F	
Construction		
Enclosure	Epoxy Powder Coated cold rolled Steel	
Dimensions (HxWxD)	51 x 51 x 38 (cm) 25 x 22 x 24 (in)	
Mounting	Benchtop	
Weight	59 Kg 131 lbs	
Conformity	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	
General Features	Historical Data/Time and Date Stamped	
Options	Total Nitrogen	
	Oxygen Generator (electricity only)	Eliminates Gas Bottles for up to 5 analyzers. Plant Air Not Required. (For indoor/climate controlled environments only.)
	Printer	

(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.)