



300 40058 Rev. D

InnovOx ES Laboratory Specification

InnovOx ES Laboratory Total Organic Carbon (TOC) Analyzer

General	1	Tag No.	Tag Rev.			
	2	P&ID No.				
	3	Line No.	Equip No.			
	4	Line Size				
	5	Line Spec				
	6	Area Classification		Non-Hazardous		
	7	Fluid	Fluid Phase		Liquid	
	8	TOC	Min/Oper/Max	0.05 ppm		50,000 ppm
Instrument	9	Type	Analysis Method	Laboratory	SCWO / NDIR	
	10	Analysis Modes		Grab, Optional Autosampler for NPOC, TOC (TC-IC), TC, IC		
	11	Analysis Time		2.6 to 8.3 min.		
	12	Inlet Connection	Connection Size	Compression Fitting	1/8" Stainless Steel	
	13	Outlet Connection	Connection Size	Barbed	1/8" PVC	
	14	Surface Finish	Wetted/Non Wetted	Mfg Std	Mfg Std	
	15	Ozone Continuous	Ozone Periodic	N/A	N/A	
	16	Sample Temp Rng	Sample Press Rng	5 to 60 °C (41-140 °F)	Ambient, 0.08-2.82 mL sample/analysis	
	17	TOC Range		0.05 to 50,000 ppm		
	18	TOC Accuracy	TOC Precision	Greater of +/- 3% of reading or +/- 0.25 ppm, 1 to 100 ppm		RSD ≤ 3% of reading at > 5 ppm
	19	Type		Integrated		
	20	Full Span	Lower/Upper	0 ppm	50,000 ppm	
	21	Calib Range	Lower/Upper	0 ppm	50,000 ppm	
	22	Accuracy		Same as Instrument		
	23	Enclosure Material	Enclosure Rating	Molded Resin & Powder Coated Aluminum	N/A	
	24	Electrical Connection		100 to 240 VAC (+/- 10%), 50/60 Hz, 400VA		
	25	Display Type		Color LCD w/ touch screen		
26	Manufacturer		Veolia			
27	Model Type		InnovOx ES Laboratory			
Other	28	Carrier Gas	CO ₂ free air or nitrogen; Oil- and water-free; If the <i>Carrier Gas CO₂ Scrubber Option</i> is not used: 207-689 kPa (30-100 psig) required			
	29	Wetted Materials	PFA, 316 SS, ETFE, Isoprene, Tantalum, Titanium, Polypropylene, Norprene [®] Chemical with PVC lining, UHMW polyethylene, PTFE, AFLAS [®] , PEEK [®] , PVC, PCTFE, Neoflon			
	30	TOC Calibration Stability	up to 6 months			
	31	Interferences	HF, F ⁻ , Concentrated reducing acids (HCl, HBr, HI, H ₂ SO ₄ , or H ₃ PO ₄)			
	32	Ambient Temperature	10 to 40°C (50-104 °F)			
	33	Max Relative Humidity	Up to 95%, non-condensing			
	34	Maximum Altitude	3,000 m (9,843 ft)			
	35	Outputs	(1) External USB, (2) Internal USB, (1) Ethernet Port			
	36	Safety Certifications	ETL, conforming to UL 61010-1, CE, UKCA, Certified to CSA C22.2 NO. 61010-1			
	37	Dimensions (Analyzer)	52.05 x 32.26 x 58.42 cm (20.5 x 12.7 x 23.0 in.) [H x W x D]			
	38	Dimensions (Autosampler)	52.2 x 31.1 x 53.3 cm (20.5 x 12.25 x 21.0 in.) [H x W x D]			
	39	Weight (Analyzer)	22.41 kg (49.4 lbs)			
	40	Smallest Inner Diameter (ID)	1.42 mm or 1420 µm			
Notes	Options: <i>Carrier Gas CO₂ Scrubber Option</i> (Removes CO ₂ from ambient air), <i>Autosampler</i> up to 63 sample tubes for 40mL and 60mL vials and up to 120 sample tubes for 35mL vials, Optional <i>Stirring Station Kit</i> for <i>Autosampler</i> (including <i>Stirring Plate(s)</i> and <i>Stir Bars</i>), Optional <i>Wash Station</i> for <i>Autosampler</i> .					