VEOLIA						InnovOx On-Line Specification
				300 40057 Rev. D		
InnovOx On-Line 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 (standard)		
	7					
Process Data	8	Fluid	Fluid Phase			Liquid
	9	Flow	Min/Oper/Max	50 - 400 mL/min (w/o filtration)		3-5 US GPM (w/ filtration)
	10	Pressure	Min/Oper/Max	< 1 kPa (1 psig) Backpressure (MAX)		
	11	Temp	Min/Oper/Max	5°C (41 °F)		60°C (140 °F) 85°C (185 °F) High Temp Option
	12	Conductivity	Min/Oper/Max	N/A		N/A
	13	TOC	Min/Oper/Max	0.05 ppm		50,000 ppm
Instrument	14	Type	Analysis Method	Online Integrated		SCWO / NDIR
	15	Analysis Modes		NPOC, TOC (TC-IC), TC, IC		
	16	Analysis Time		2.6 to 8.3 min. in Online mode		
	17	Inlet Connection	Connection Size	Quick-connect or barbed		0.25 in. PVC for barb
	18	Outlet Connection	Connection Size	Barbed		0.25 in. PVC for barb
	19	Surface Finish	Wetted/Non Wetted	Mfg Std		Mfg Std
	20	Ozone Continuous	Ozone Periodic	N/A		N/A
	21	Sample Temp Rng	Sample Press Rng	5 to 60°C (41-140 °F), 5-85°C (41-185 °F) High Temp Option		< 1 kPa (1 psig) Backpressure (MAX)
	22	Raw Cond Rng	Max Sample Cond	N/A		N/A
	23	Cond Accuracy	Cond Precision	N/A		N/A
	24	TOC Range		0.05 to 50,000 ppm		
	25	TOC Accuracy	TOC Precision	Greater of +/- 3% of reading or +/- 0.25ppm, 1 to 100ppm		RSD ≤3% of reading at >5 ppm
	26	Type		Integrated		
	27	Full Span	Lower/Upper	0 ppm		50,000 ppm
	28	Calib Range	Lower/Upper	0 ppm		50,000 ppm
	29	Accuracy		Same as Instrument		
	30	Enclosure Material	Enclosure Rating	Powder Coated Alum		IP56
	31	Electrical Connection		Hard wire 100 to 240 VAC (+/- 10%), 50/60 Hz, 400VA		
	32	Analog Output	Signal Communications	6		Ethernet (Modbus and TCP/IP), USB
	33	Display Type		Color LCD w/ touch screen		
	34	Manufacturer		**Veolia**		
	35	Model Type		**InnovOx On-Line**		
Other	36	Carrier Gas		CO_2 free air or nitrogen; Oil- and water-free; *Analyzer*: 207-689 kPa (30-100 psig) required, *IP56 Accessory*: 551-689 kPa (80-100 psig) required, *Regenerative Air Purifier Option*: 551-689 kPa (80-100 psig) required, All three: 551-689 kPa (80-100 psig) required.		
	37	Wetted Materials		PFA, 316 SS, ETFE, Isoprene, Tantalum, Titanium, Polypropylene, Norprene® Chemical with PVC lining, Santoprene™, UHMW polyethylene, AFLAS®, PEEK®, PVC, PCTFE, PTFE, Noeflon PCTFE®		
	38	Calibration Stability		up to 6 months		
	39	Interferences		HF, F^-, Concentrated reducing acids (HCl, HBr, HI, H_2SO_4, or H_3PO_4)		
	40	Ambient Temperature		10 to 40°C (50-104 °F)		
	41	Max Relative Humidity		Up to 95%, non-condensing		
	42	Maximum Altitude		3,000 m (9,843 ft)		
	43	Inputs		(1) Binary Input for Remote Analysis Start/Stop		
	44	Outputs		(1) Ethernet (Modbus TCP/IP); (6) Isolated 4-20mA, 5 analytical and 1 stream ID.		
	45	Outputs		(1) External USB, (2) Internal USB, (1) Binary End-of-Analysis Output		
	46	Safety Certifications		ETL, conforming to UL 61010-1, CE, UKCA, Certified to CSA C22.2 NO. 61010-1		
	47	Dimensions		92.7 x 64.6 x 38.7 cm (36.5 x 25.4 x 15.3 in.) [H x W x D]		
	48	Weight		36.3 kg (80 lbs)		
	49	Sample Particle Size		≤ 200 µm diam and 100 ppm TSS with *Clean Water Sampler*. >200 µm diam and 1,000 ppm TSS with optional *Wastewater Sampler* (WWS).		
	50	Smallest Inner Diameter (ID)		1.57 mm or 1570 µm		
Notes	**Options:** *Regenerative Air Purifier* (Removes CO_2 from compressed air), *Wastewater Sampler* (Streams with >200 µm diameter particles), *Clean Water Sampler - High Temperature Configuration* (streams with temperature 60-85°C), *Fail Safe* Kit (Detects no flow and no reagents), *Mounting Stand*, *Sample Peristaltic Pump* (*External Sample Pump*) *Option* (Streams with no head pressure).					