

# Lotix Specifications

<b>Chemistry:</b>	Oxidation by Combustion: From 680°C - 1000°C
<b>TOC Detector:</b>	Non-Dispersive Infrared (NDIR) Detector
<b>TOC Analytical Modes:</b>	TOC (NPOC), TC-IC, TC, IC
<b>TOC Analytical:</b>	<p>Concentration range 0-20,000 ppm without dilution using a single 0.5 mL sample injection. Higher concentrations achievable with dilution prior to analysis.</p> <p>Limit of Detection: 50 ppb</p> <p>Carryover: ≤ 1.0% Cross Contamination</p> <p>Sample Size: 0.5 mL</p> <p>Precision*: ≤2% RSD, typical of a mid-range standard.</p> <p>* Analytical performance is affected by laboratory water, reagent and gas purity, sample container cleanliness, sample matrix, gas regulator cleanliness, precision and operator skill.</p>
<b>TOC Analysis Time:</b>	13-15 minutes typical for triplicate TOC analysis
<b>Carrier Gas Handling:</b>	Integrated pressure regulator with in-line flow restrictors to maintain carrier gas at 200 mL/min
<b>Liquid Handling:</b>	<p>Pressurized sample delivery and liquid handling</p> <p>Solenoid actuated micro-pump precisely delivers acid for IC removal/analysis in 50µL increments +/-5%</p> <p>Self-cleaning sample handling process that cleans sample pathway before and after every sample</p>
<b>Sample Introduction:</b>	Integrated 30-position autosampler (conveyor style)
<b>Controller:</b>	PC, Interface through Windows™ 7 or greater
<b>Data Handling:</b>	<p>Reports exportable to CSV and PDF format</p> <p>Importing from CSV file</p> <p>Real time viewing and printing of analytical results while instrument is running</p> <p>Ability to store customized individual test methods</p> <p>Priority samples via schedule interrupt</p> <p>Outlier deletions and precision performance criteria controls</p>
<b>Other Features:</b>	<p>Pre-programmed point and click method set-up</p> <p>Instrument condition light</p> <p>Automatic and configurable standby mode</p> <p>Simple design ensures access to internal components in minutes</p> <p>Combustion tube can be accessed from the front of the instrument in minutes</p> <p>Autorinsing from sample and/or rinse water via built-in rinse station</p>
<b>Principal Applications:</b>	Waste Water, Industrial Waste Effluent, and Surface Water, Ground Water, Sea Water
<b>Certification:</b>	CE (CSA site certified if required)
<b>TOC Utility Requirements:</b>	Universal Voltage: 100/115/230 VAC (±10%), Frequency: 50/60 Hz, Power: 1150 VA
<b>TOC Dimensions:</b>	18.2" W (46.2cm) x 23.7" D (60.2cm) x 26.3" (66.8cm) H Weight 53 lbs (24 kg)
<b>TOC Gas Supply:</b>	Hydrocarbon and Carbon Dioxide (CO <sub>2</sub> ) free air with TOC content <1 ppm or UHP O <sub>2</sub> . Gas can be supplied from a cylinder or TOC gas generator. If a TOC gas generator is used, resulting gas must be hydrocarbon and water free. To assure clean carrier gas is used, we suggest employing a complete CO <sub>2</sub> removal system and hydrocarbon trap between the gas source and analytical instrument.
<b>TOC Gas Inlet Pressure:</b>	50 to 100 psi

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