

LSS Boat

High Temperature Combustion TOC Analyzer for the Analysis of Solids

- Automated sample delivery into furnace via software control
- Uses reverse flow technique eliminating the need for pre-peak analysis
- 0.1 mg - 20 mg Carbon in a single calibration curve
- Up to 1.5 gram sample size giving you a wide analytical range (depending on matrix)
- Ability to switch back and forth between liquids and solids in minutes
- Real-time viewing of analytical data and printing of sample reports
- Only 10" (25.4 cm) wide, maximizing bench space
- Upgraded features in Lotix software to include user permissions and maintenance reminders

TOC users from around the globe requested simplicity, performance, and durability for their analyzers. The Teledyne Tekmar LSS Boat Module is an ideal add-on to the Lotix Total Organic Carbon (TOC) analyzer. It uses high-temperature combustion to accurately measure carbon content in a variety of matrices: soils, sludges, sediments, particulate-laden liquids and hard-to-oxidize samples.

Compact and simple, the LSS Boat is designed to work with the Lotix making it the ultimate solution for all of your TOC needs with an economical price to fit any budget.



LSS Boat Specifications

Required Instrumentation - Lotix High Temperature Combustion Analyzer

Chemistry:	Oxidation by Combustion: From 680 °C - 1000 °C
Analytical Method:	TC, TOC, NPOC
Detector:	Non-Dispersive Infrared (NDIR) Detector - requires Lotix TOC Analyzer
Boat Material:	Quartz
Controller:	PC, Interface through Windows™ 7 (with SP1) - Professional, Enterprise, and Ultimate (32 or 64 bit), Windows™ 10 Professional Enterprise, or greater
TOC Analytical:	S.D. +/- 2% typical of a mid-range standard
Maximum Sample Amount:	Up to 1.5 grams depending on sample matrix
Measuring Range:	TC, TOC 0.1 mg to 20 mg carbon
TOC Analysis Time:	~5-7 minutes with a gas rate of 200 mL/min
Sample Introduction:	Automated delivery of sample boat into furnace via software
Principal Applications:	Soils, sludges, sediments, particulate-laden liquids, hard-to-oxidize samples
Certification:	CE (CSA site certified if required)
TOC Utility Requirements:	Voltage: 100/115/230 VAC (±10%) (Operation on nominal 100 VAC mains input requires a minimum of 108V achieved by the addition of a step-up transformer with a minimum 2000 Watts (VA) power rating.), Frequency: 50/60 Hz
TOC Dimensions:	10" (25.4 cm) W x 24" (60.9 cm) D x 15.8" (40.1 cm) H Weight 32 lbs (14.5 kg)
TOC Gas Supply:	Hydrocarbon and Carbon Dioxide (CO ₂) free air with TOC content <1 ppm or UHP O ₂ . 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.
LSS Gas Inlet Flow:	200 mL/min from Lotix +/- 10%

