



## SC632 Sulfur/Carbon Series

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This state-of-the-art instrument offers you an ASTM-approved technique for determining sulfur and carbon simultaneously or individually using direct combustion/infrared detection. A variety of models allow you to perform sulfur, carbon, or sulfur/carbon analysis quickly and effortlessly for many applications—including coal, coke, cement, soil, and fuel oil. A small footprint, external PC with improved operational controls, automation capabilities, and increased instrument robustness are all a part of the SC632-Series advanced design.

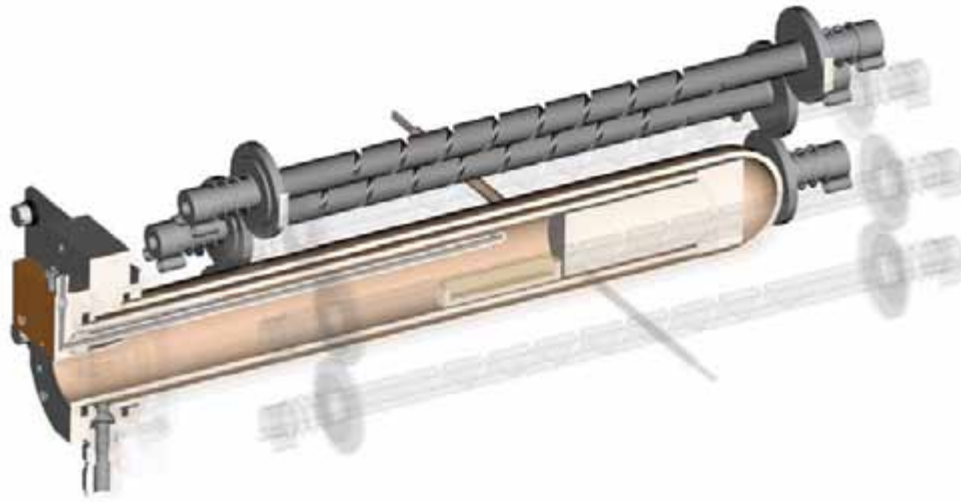
**A variety of features have been implemented into the instrument design to answer the needs of our customers.**

- Exclusive ECLIPSE® architecture—a unique design by LECO linking internal system electronics for improved reliability and serviceability
- Improved plumbing—streamlined and efficient for faster maintenance of flow path
- Accessible components—easily accessible to the operator, improving overall serviceability and reducing maintenance time
- Autoloader Capabilities—an optional autoloader fully automates the analysis cycle for increased throughput and efficiency
- Blank and drift correction features



## User-Friendly Windows®-Based Software

- Simplified data handling with convenient storage and customizable reporting and data exporting capabilities
- User-definable fields for automatic calculations using custom formulas
- User-definable counters to aid in the tracking of routine maintenance procedures and reagents
- User-definable gas conservation mode helps avoid wasting costly gas
- Pause/Delayed Start allows automatic start-up, equilibration, and standardization at any time selected by the user; allows the system to be ready and in wait at any time the user defines
- Expanded real-time service diagnostics
  - Ambient charts of instrument temperatures, pressures, and detector signal
  - Manual control of solenoids and switches
  - Network and communications diagnostics
- Compatible to **SmartLine®** Remote Diagnostics application
- Supports compliance to FDA regulations 21 CFR Part 11 for a closed analytical system



### Combustion Tube with Lance

- Lance tube introduces incoming oxygen directly onto the sample, rather than by slowly filling combustion tube
- Since oxygen flow is focused where it is needed most, the speed of combustion is increased, reducing the analysis time
- Durable concentric ceramic furnace tube maximizes the combustion products' exposure to heat and oxygen ensuring sulfur and carbon recovery

### Six-Element Heating Furnace

- High-endurance design improves robustness; minimizes downtime and operating costs
- Improved element strength with power-load capacity results in a more durable furnace
- Capable of temperature range of 600°C to 1450°C



### Sample Introduction and Maintenance

- Extended-life anhydrous tube positioned behind an ergonomically designed casting
- Large reusable sample boats facilitate sample weighing and handling
- Open ceramic boats provide ample surface area for complete and efficient combustion, reducing analysis time and allowing for complete carbon and sulfur recovery

### Optional Automation

- Available autoloader for sequential and non-sequential analysis of up to 50 pre-weighed samples
- Perfect for high-throughput laboratories requiring unattended analyses
- Rugged design for improved reliability and minimal maintenance requirements
- For more information, request specification sheet 209-171-004



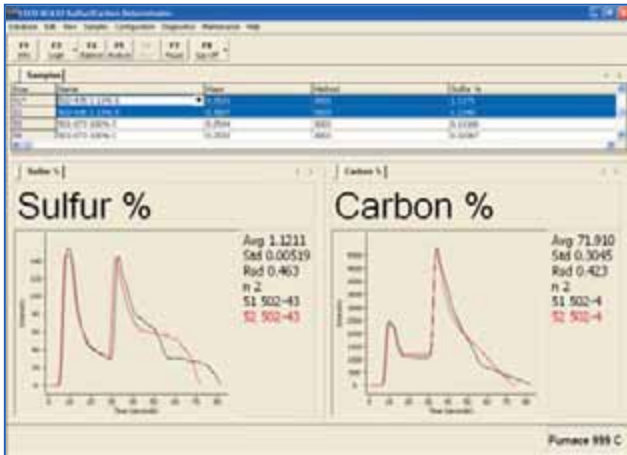
### Available Configurations

SC632 Sulfur/Carbon Determinator	S632 Sulfur-only Determinator	C632 Carbon-only Determinator
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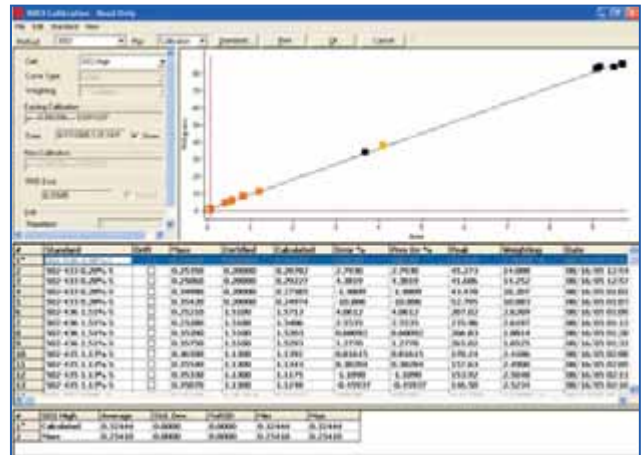
All configurations available with optional autoloader.

# Easy-To-Use Windows®-Based Operating Software

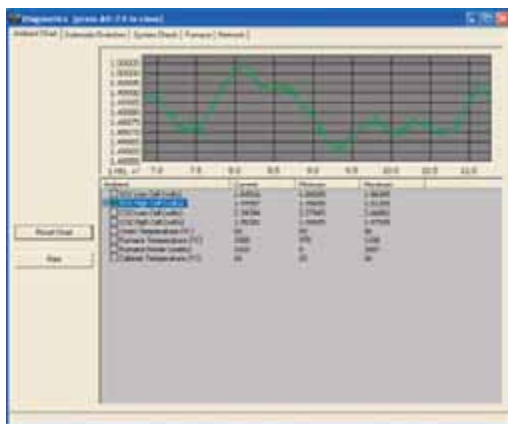
Featuring unlimited storage space and compatibility with various Laboratory Information Management Systems (LIMS), this software is designed for seamless interaction with any operator or customer environment. A convenient on-board help manual allows you to quickly access information without leaving your instrument.



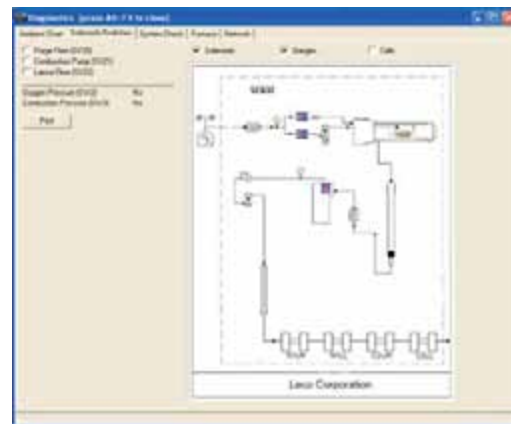
Manage data and graphs seamlessly.



Perform calibrations and drift connections.

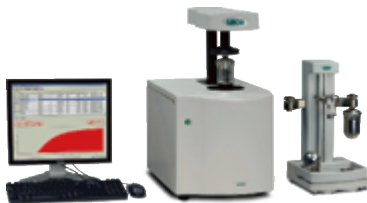


Monitor real time instrument component readings.



Expanded interactive diagnostic screens help you troubleshoot and improve serviceability.

## LECO—Your source for total analytical solutions



### AC-Series Isoperibol Calorimeters

- Accurate calorific measurements
- Ergonomic water-measuring/combustion vessel-filling station
- Analysis time in as little as five minutes
- Meets or exceeds ASTM and DIN requirements
- 6,000 to 15,000 BTU/lb. for 1 gram sample



### TGA701 Thermogravimetric

- Determines moisture/ash or weight-loss in various organic samples
- Expanded temperature control (up to 1000°C) with variable atmospheres and ramp rates
- Pneumatic carousel mechanism and ergonomic design increases sample throughput, decreases downtime, and improves serviceability
- Complies with AOAC, AACC, and ASTM-approved methodology

3000 Lakeview Avenue • St. Joseph, MI 49085 • Phone: 800-292-6141 • Fax: 269-982-8977  
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Delivering the Right Results

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