

## AC600 Semi-Automatic Calorimeter

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Built on a collaboration of customer input and sound engineering, the LECO AC600 Semi-Automatic Calorimeter provides fast and accurate calorific results for various organic materials, including coal, coke, fuel oils, and waste materials. Its unique design combines state-of-the-art hardware and software technology with automation and an increased ease of operation for improved instrument performance and throughput.

An advanced thermodynamic model (TruSpeed® Mode), optimal automation, superior design, and improved ergonomic elements enable a repeatable, rapid 5.5-minute analysis time without compromising accuracy, precision, operator comfort, or convenience.



## Maximize Throughput with Integrated Automation and Rapid Analysis Times

### Automated Features Boost Productivity

- All water filling, draining, and volume measurement, as well as control of heating and cooling water, are automatically handled within the instrument.
- Automated raising, lowering, and equilibration of the vessel ensure the vessel is equilibrated to the bucket and jacket water before placing the vessel in the proper position.
- Unique automatic sealing of bucket and jacket chambers enable the precise and repeatable measurement of water in the bucket chamber.

### Fast, Accurate Analysis Times

- TruSpeed Mode developed by LECO makes it possible to achieve 5.5-minute analysis times, without compromising accuracy or precision.
- Optional two-vessel operation maximizes throughput by allowing you to prepare the second vessel and sample while the current sample is being analyzed, resulting in the analysis of 11 samples per hour.

# Instrument Highlights and Features

## Ergonomically-Designed Vessel

- Reduced vessel weight with rounded surfaces promotes easy handling of the vessel, while enhancing the heat transfer rate of the vessel.
- Vessel cap secures within 1.5 revolutions, greatly reducing repetitive motion and allowing for quicker vessel preparation.
- Simple and clean electrical contact and oxygen depressurization port reduces oxygen and thermal leak points, improves accessibility of rinsing vessel, and decreases overall points of maintenance within the vessel.



## Vessel Station Enhances Ease-of-Use

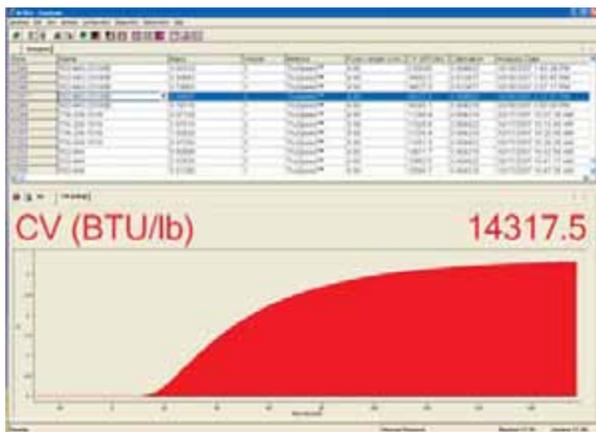
- Integrated vessel charging and depressurization ports are equipped with quick-release handles to speed vessel charging and depressurization process.
- Convenient wash basin area for rinsing the vessel and sample preparation.
- Height-adjustable cap rack for convenient loading of sample crucible and preparation of the vessel fuse.



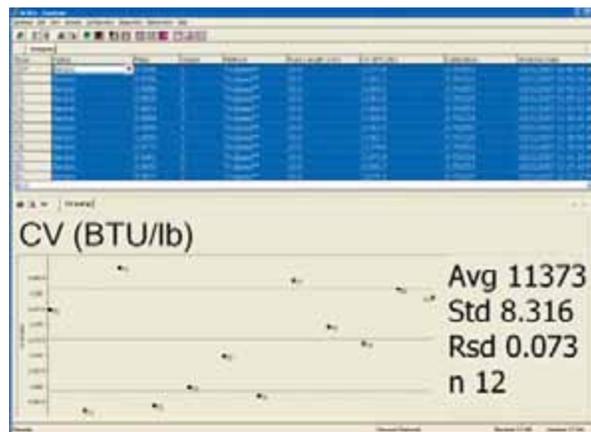
## Intuitive Windows-Based Software

With virtually unlimited storage space and compatibility with various Laboratory Information Management Systems (LIMS), this software is designed for seamless interaction with any operator or laboratory environment. A convenient on-board help manual allows quick access to information without leaving the instrument, with compatibility to ~~SmartLine~~ Remote Diagnostic application.

- Simplified data handling, with convenient storage and customizable reporting and data exporting capabilities.
- User-defined calculations support custom calculations or conversions for data and results.
- Thermochemical basis corrections for: Fuse, Nitrogen, Sulfur, and combustion aid.



Seamlessly manage data and plots



Integrated control charts and statistical calculations



Monitor real-time internal component readings



Expanded interactive diagnostic screens to aid in troubleshooting and improve serviceability

## LECO—Your source for total analytical solutions



### TGA701 Thermogravimetric

- Determines moisture/ash or mass-loss in various organic samples
- Expanded temperature control (up to 1000°C) with variable atmospheres and ramp rates
- Complies with ASTM-approved methodology



### SC632 Sulfur/Carbon

- Simple, fast sulfur/carbon determination
- 250 mg nominal sample size
- Optional automation for up to 50 samples

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Delivering the Right Results

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