



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 the addition 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. This allows for optimal circulation of water through the baffle within the bucket and over the vessel.
- 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 allowing you to prepare the second vessel and sample while the current sample is being analyzed.

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 reduce oxygen and thermal leak points, improve accessibility of rinsing vessel, and decrease overall points of maintenance within the vessel.



Vessel Station Enhances Ease-of-Use

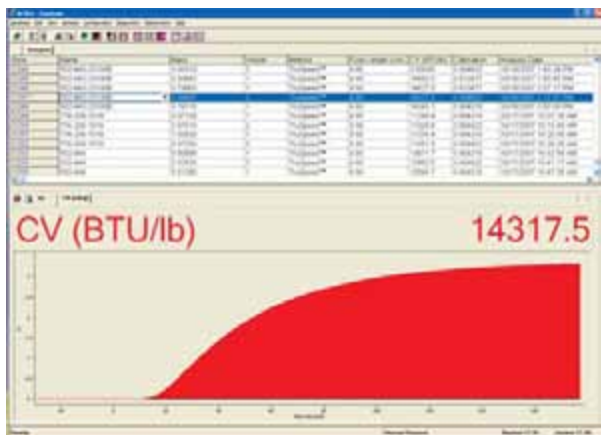
- Integrated vessel charging and depressurization ports are equipped with quick-release handles to speed vessel charging and depressurization process.
- Convenient wash basin area for rinsing the vessel and sample preparation.
- Height-adjustable cap rack for convenient loading of sample crucible and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



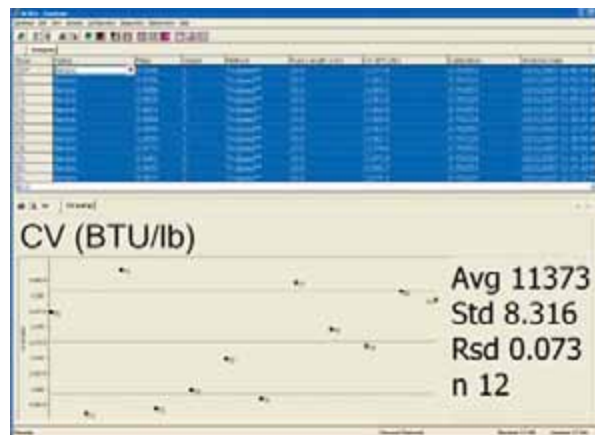
Intuitive Windows-Based Software

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, Spike, and Ash.



Seamlessly manage data and plots



Integrated control charts and statistical calculations

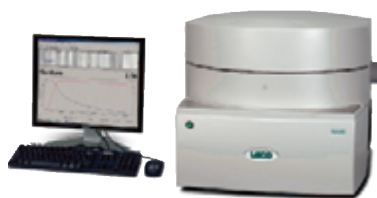


Monitor real-time internal component readings



Expanded interactive diagnostic screens to aid in troubleshooting and improve serviceability

LECO—Your source for total analytical solutions



TGA701 Thermogravimetric

- Determines moisture/ash or weight-loss in various organic samples
- Expanded temperature control (up to 1000°C) with variable atmospheres and ramp rates
- Complies with AOAC, AACC, and 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