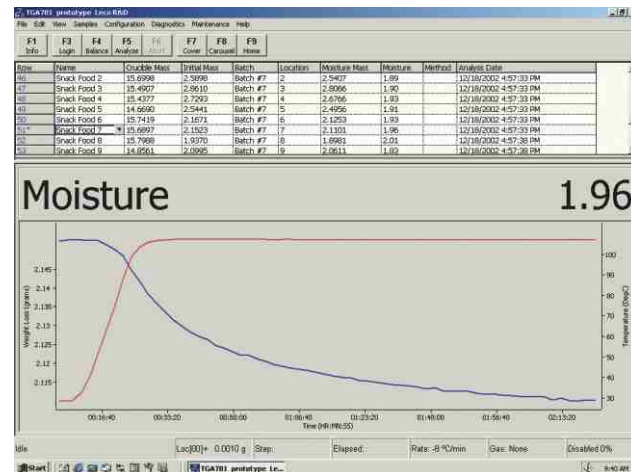
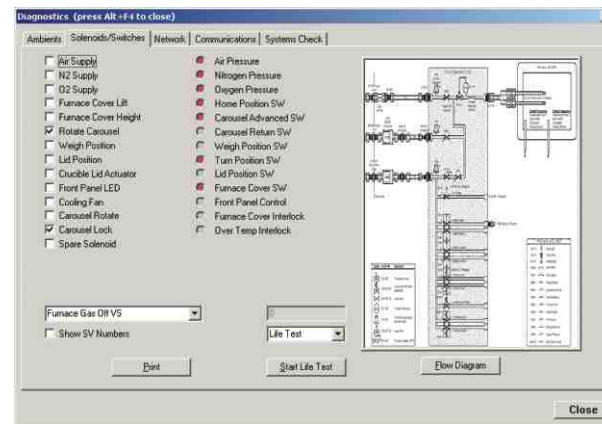


## Easy-To-Use Windows®-Based Operating Software

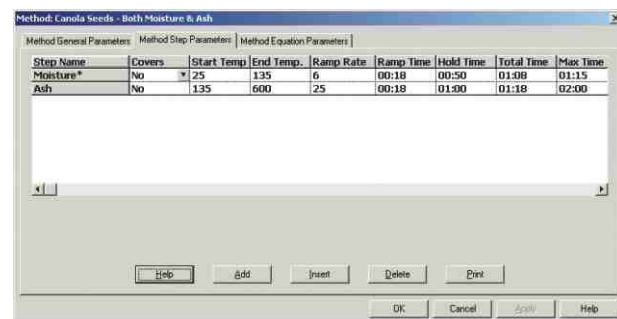
With unlimited storage space and compatibility with various Laboratory Information Management Systems (LIMS), this software is designed for seamless interaction with any operator or customer environment. A convenient on-board help manual allows you to quickly access information without leaving your instrument.



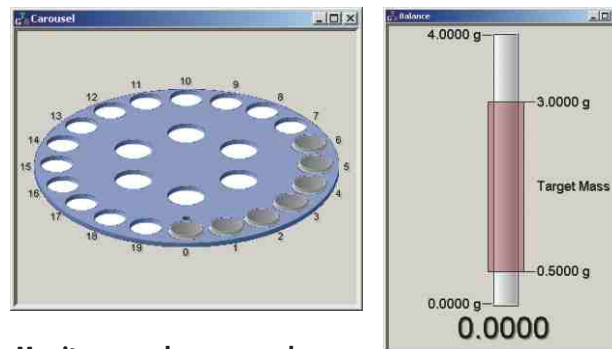
Manage data and graphs seamlessly.



Expanded interactive service diagnostic screens help increase your uptime.



Customize method parameters to your application.



Monitor sample mass and positions graphically.

TGA701 Software supports compliance to strict FDA regulations (21 CFR Part 11) for a closed analytical system.

## LECO Organic Analysis—Working with You

TruSpec® Series  
Elemental  
Determinators



TFE2000 Fat  
Determinator



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**LECO**  
Delivering the Right Results

Form No. 209-149

R2.510-REV3

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**LECO**  
TGA701 Thermogravimetric Analyzer



# TGA701 Thermogravimetric Analyzer

## Your total solution for fast, robust elemental and macro-constituent analysis

The TGA701 is LECO's latest generation of thermal analysis technology. It determines weight loss—as total moisture, ash, volatile content or LOI—in various organic, inorganic, and synthetic materials. Complying with AOAC, AACC, and ASTM-approved methodologies, the TGA701 can be used in various industries and applications, including coal/coke, cement, catalysts, foods, feeds, and milling products.

Thermogravimetric analysis replaces traditional analytical techniques that require vacuum ovens, muffle furnaces, or microwave ovens. The TGA701 itself is an integration of the many benefits associated with previous-generation LECO models (MAC-400/500, TGA-500/501/601). It offers enhanced capabilities such as accurate, high-throughput weight measurements, and simultaneous control of system temperature (via accurate temperature prediction)—improving overall instrument reliability, functionality, and robustness. Simply program the TGA701 to match your current method for thermal analysis, and allow it to automatically operate with minimal user interaction.

### TGA701 Advantages

#### Higher Sample Throughput

- Perform batch analysis with none of the desiccator time required by traditional methods
- Dual configuration analyzes up to 38 samples simultaneously

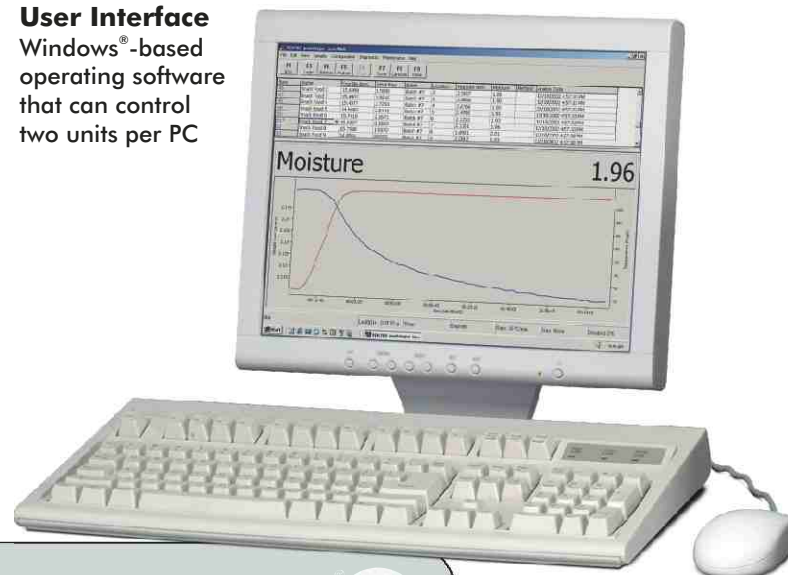
#### Improved Accuracy and Precision

- Patent-pending temperature prediction procedure standardizes unit-to-unit heating
- Integrated balance reduces noise and drift
- Pneumatic carousel mechanism ensures reliability

#### Ergonomic Design

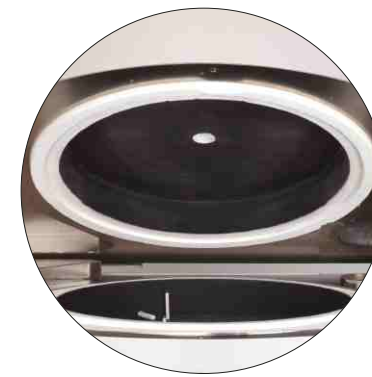
- Small footprint
- Access internal components from the front side

**User Interface**  
Windows®-based operating software that can control two units per PC



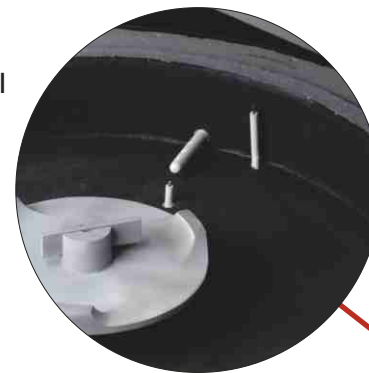
#### Delivering the Right Results

With dedicated support after the sale including highly trained Service Support personnel, Customer Training Courses, **SmartLine**® Remote Diagnostics, Preventive Maintenance Agreements, and a full line of consumables and spare parts, LECO stands by our commitment of helping you achieve the right results.



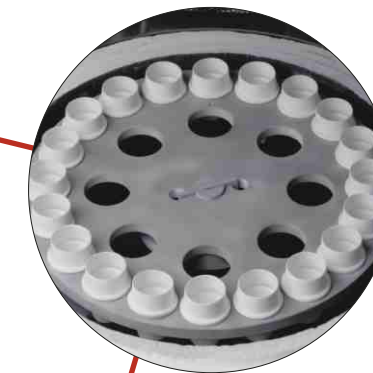
#### Embedded Heating Elements and Furnace Lids

- Temperature control up to 1000°C
- Provides uniform heat with enhanced ramping and temperature control



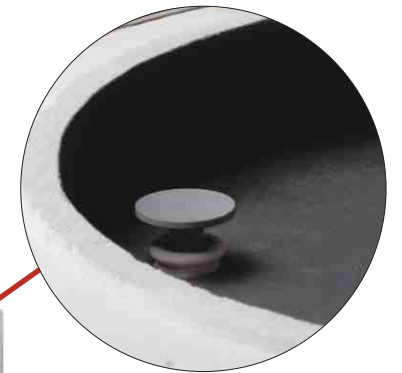
#### Dual Thermocouples

- Patent-pending technique accurately predicts temperature inside the crucible
- Provides over-temp protection



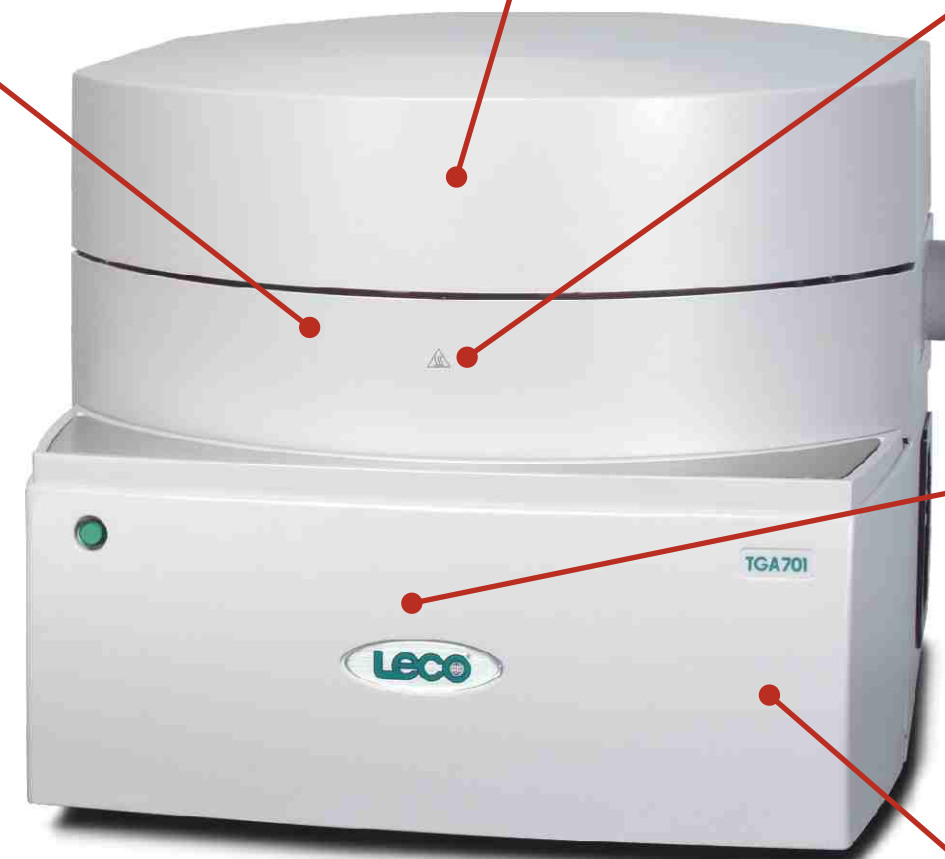
#### Ceramic Carousel and Pneumatic Carousel Mechanism

- 20 positions—for high throughput analysis
- Robust ceramics—will not warp under temperature stress (unlike metal)
- Pneumatic carousel—improves crucible placement accuracy and decreases balance noise



#### Integrated Balance and Pedestal

Four-place sensitivity with a robust pedestal to hold ceramic crucible



#### ECLIPSE Network Protocol

Links internal system electronics for improved reliability and serviceability; exceeds FCC and CE requirements

