

## TruSpec<sup>®</sup> Micro Elemental Series

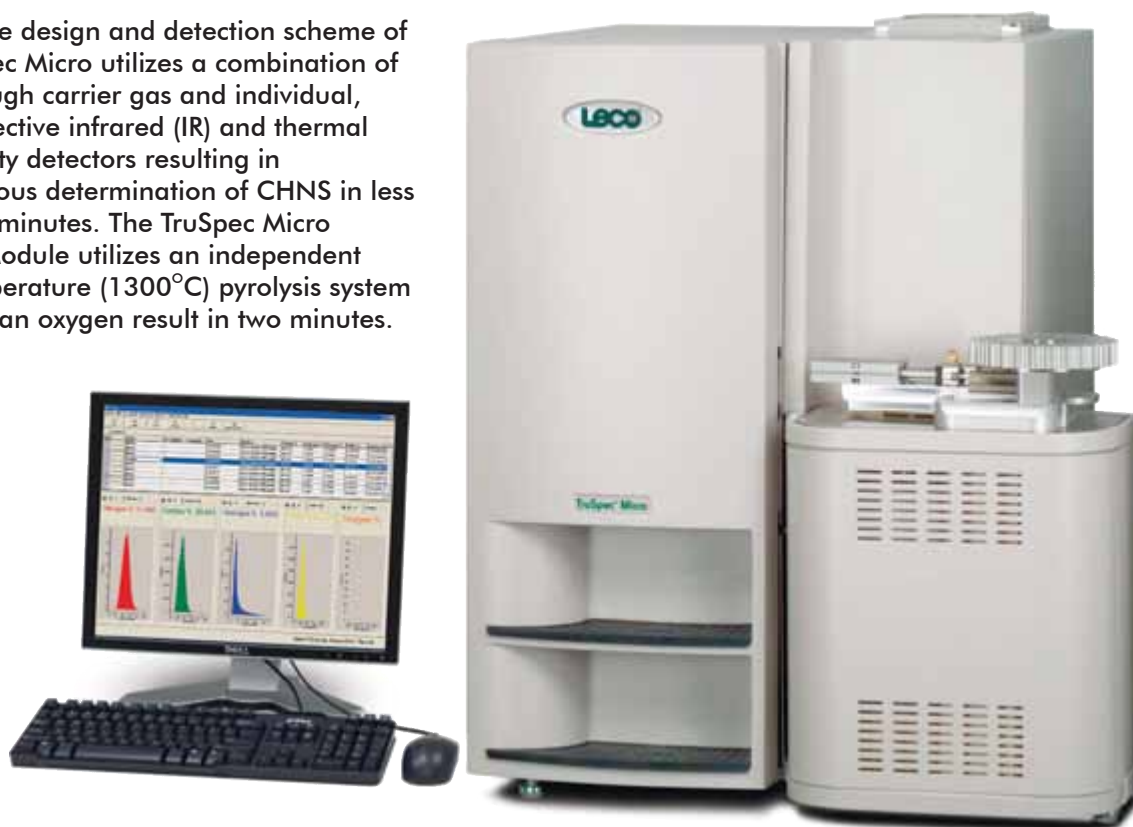
# TruSpec<sup>®</sup> Micro Elemental Series

**Designed to meet your true specifications for optimal performance.**

Built on a collaboration of customer input and sound engineering, the TruSpec Micro is available in elemental configurations including CHN and CHNS, with the TruSpec Micro Oxygen Add-on Module compatible with either configuration.

Incorporating state-of-the-art hardware and software technology and focusing on improving instrument performance and efficiency, the TruSpec Micro is designed to provide you with fast and accurate elemental determination of a wide variety of solid or liquid samples in the fields of pharmaceuticals, polymers, chemicals, and petrochemicals.

The unique design and detection scheme of the TruSpec Micro utilizes a combination of flow-through carrier gas and individual, highly selective infrared (IR) and thermal conductivity detectors resulting in simultaneous determination of CHNS in less than four minutes. The TruSpec Micro Oxygen Module utilizes an independent high-temperature (1300°C) pyrolysis system providing an oxygen result in two minutes.



## User-Friendly Windows<sup>®</sup> -Based Software

- Simplified data handling with convenient storage and customizable reporting and data exporting capabilities
- User-definable fields for automatic calculations using custom formulas predicting physical properties based on elemental composition
- 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
  - Automated leak and systems checks
  - Network and communications diagnostics
- Compatible to ~~Smart~~**Line**<sup>®</sup> Remote Diagnostics application
- Supports compliance to FDA regulations 21 CFR Part 11 for a closed analytical system



### Integrated Autoloader and Loading Head

- Reliable, gravity-fed automation (30 to 120 positions)
- Integrated electronics, pneumatics, and purging chamber for greater reliability, faster removal, and efficient atmospheric purging

### Combustion Tube

- Durable, U-shaped quartz combustion tube withstands temperatures up to 1100°C
- Sample oxidation and ash collection take place in primary side; reduction of combustion gases using a copper catalyst takes place in secondary side
- Each tube side independently temperature controlled



### Quick-Change Top-Loading Reagents

- Reagents contained within the reticulated crucibles for fast removal without cooling the furnace
- Removable quartz sleeve enables the copper catalyst to be changed without cooling the furnace

### Optimized Elemental IR Detectors

- Selective detectors with wide dynamic ranges
- Minimizes analysis time and expands sample throughput



### ECLIPSE Network Protocol

- Links internal system electronics for improved reliability and serviceability
- Exceeds FCC and CE requirements

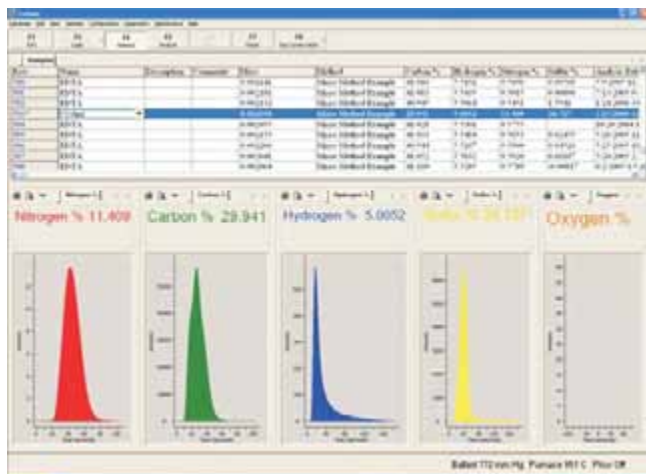
### Optional TruSpec Micro Oxygen Add-On Module

- Provides independent oxygen determination capabilities
- Analysis in two minutes using a high-temperature (1300°C) pyrolysis furnace

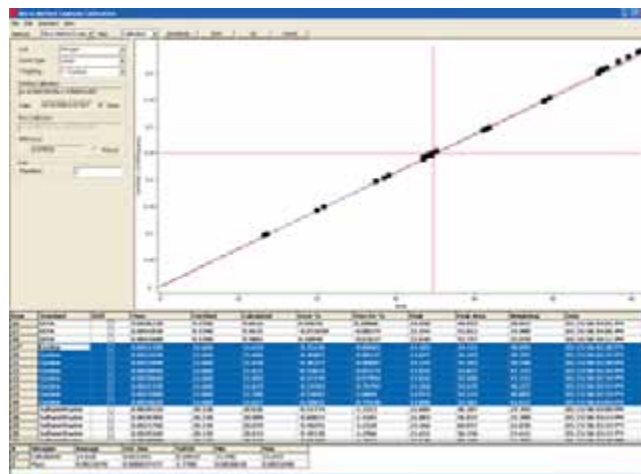


## Easy-To-Use Windows®-Based Operating Software

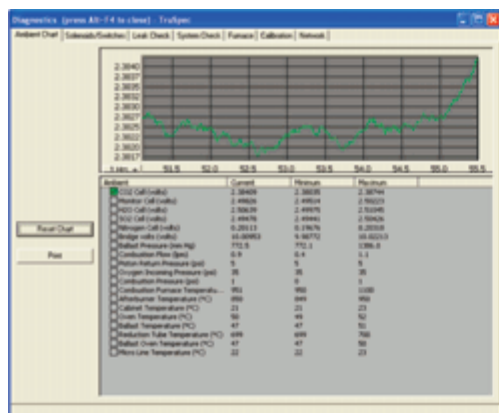
With virtually unlimited storage space and compatibility with various Laboratory Information Management Systems (LIMS), this software is designed for seamless interaction with any operator or customer environment. A convenient on-board help manual allows quick access to information without leaving the instrument. The TruSpec Micro software also supports compliance to FDA regulations 21 CFR Part 11 for a closed analytical system.



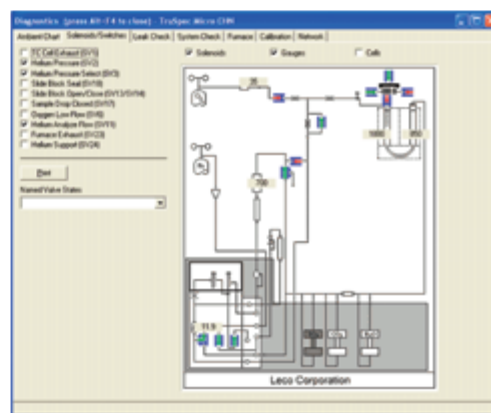
Seamlessly manage data and graphs



Perform calibrations and drift corrections

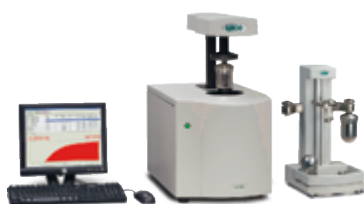


Monitor instrument component readings



Expanded interactive diagnostic screens to aid in troubleshooting 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

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