

# *736 Series*

## *Oxygen/Nitrogen by Inert Gas Fusion*



**LECO**  
EMPOWERING RESULTS

# 736 Series Oxygen/Nitrogen by Inert Gas Fusion

The 736 family of Elemental Analyzers is designed for routine measurement of oxygen and nitrogen content of inorganic materials, ferrous and nonferrous alloys, and refractory materials using the inert gas fusion technique.

These instruments feature our Cornerstone® brand software, a custom interface designed specifically for touch-screen operation. Developed by combining long-term research with customer feedback, this easy-to-use software gives you complete access to instrument control, analysis settings, diagnostics, reporting, and more—without sacrificing valuable bench space.



## User-Friendly Cornerstone Brand Software

LECO's exclusive Cornerstone brand software with touch-screen interface enables complete access to analysis control, method settings, diagnostics, reporting, and more in a highly organized, intuitive, and immersive environment. Designed through a collaboration of customer feedback and innovative engineering, Cornerstone features all of the routine day-to-day operations within a single Analysis screen designed for speed and ease-of-use. Our innovative grouping of sample data into sets and replicates simplifies the data output and automatically calculates relevant statistics, alleviating the need for additional data processing.



## Software Features & Benefits

Cornerstone brand software is divided into four main sections—Analysis, Diagnostics, Settings, and Instrument—for simplified navigation and organization. Toolbars, sliders, and drop-down menus make it easy to set parameters for calibration and data processing. The software also includes real-time ambient monitors, with fully animated system diagrams. Advanced diagnostic features include a thorough digital on-board manual, maintenance animations, photo illustrations, and screen captures that quickly provide the direction needed without having to refer to multiple manuals. Cornerstone also supports extended data archiving and flexible reporting capabilities.



This screenshot shows the 'Diagnostics' section of the software. It presents a list of diagnostic items, each with a status indicator (e.g., 'OK', 'Warning', 'Error') and a corresponding description. The items are organized in a table-like format, allowing for easy monitoring of system health. The interface includes various control buttons and a toolbar at the bottom.



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## *Instrument Highlights and Features*

### **Features and Benefits**

- LED light ring illuminates the furnace area
- Choice of either argon or helium carrier gas
- Novel electrode design increases heat transfer efficiency for increased stability
- Non-touch interface systems are also available
- User-friendly Cornerstone brand software



*Shown with touch-screen monitor.*



*Shown with optional autocleaner and stand-alone touch-screen monitor.*



### ***High-Performance Detector Design***

- Thermostatic construction provides increased protection from ambient temperature fluctuations
- Optimized emitter control and detection circuitry improves the IR cell lifetime and long-term stability, resulting in superior accuracy and precision
- Infrared detection for the determination of oxygen, thermoconductivity detection for the determination of nitrogen

### ***Optional Features***

- Optional boom-mounted touch-screen interface package (M) promotes an ergonomic workspace
- Optional Performance Package (P) adds a three-stage carrier gas purification system, and a dual-loop gas dose module
- Optional Dual Cooling Package (D) adds an integrated liquid-to-air radiator with dual DC cooling fans. This option gives the user the choice of liquid-to-liquid cooling, liquid-to-air cooling, or a combination of both
- Optional integrated autocleaner (H) automatically cleans the upper electrode and lower electrode tip
- Optional 20-sample shuttle loader available



*Shown with optional autocleaner and autoloader.*

## Models

ON736 Oxygen/Nitrogen

O736 Oxygen

N736 Nitrogen

## Options

|                       |                |                                          |
|-----------------------|----------------|------------------------------------------|
| Gas Regulators        | Printer        | <del>Smart Line</del> Remote Diagnostics |
| Recirculating Chiller | Power Purifier | Interfaced Balance Kit                   |

NOTE: Multiple configurations of options are available. Please contact your local LECO Sales Engineer for more details.

## LECO—Your source for total analytical solutions



### CS844 Series: Carbon/Sulfur by Combustion

- Carbon and sulfur determination by combustion infrared detection
- Quick, accurate, and affordable determination for both production control and research
- Calibration, analysis, evaluation, and diagnostic functions accessible via user-friendly Cornerstone brand software

### GDS900 Atomic Emission Spectrometers

- Spectral range from 120 to 800 nm
- Continuous profile of concentration/thickness
- Large, dynamic range with concentrations from ppm to 100% by weight
- Short analysis time (minutes)



### Inorganic Consumables

Get the best results from your LECO instrument by using genuine LECO consumables. Visit [www.leco.com](http://www.leco.com) for featured items, specials, and ordering information. (Form number 203-959)

Our global network of sales/support includes over 25 subsidiaries worldwide, and is dedicated to customer service and satisfaction. The one thing all laboratories need to be successful is results they feel confident in. Since 1936, LECO has worked with our customers to find the right solution for the type of sample analysis they are performing, helping them to achieve data that is clear, consistent, and accurate. But our commitment to the customer doesn't end when our instruments are delivered.



**LECO Headquarters**



**Robert J Warren Customer Experience Center**



**Technical Research Center**



**Global Support Center**

LECO is dedicated to enhancing the user experience long after the sale by offering thorough training on our instruments and technology, accessibility to instrument service programs that keep your instruments in top working order, and access to friendly service and support to ensure you are getting the most out of your purchase—support that will empower your laboratory for success.

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