



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
7780075

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF
MICHAEL AUSTIN
304-558-2402

VENDOR

RFQ COPY
LECO CORPORATION
3000 LAKEVIEW AVENUE
ST JOSEPH MI 49085

SHIP TO

DIVISION OF HIGHWAYS
TRAFFIC SERVICES COMPLEX

190 DRY BRANCH ROAD
CHARLESTON, WV
25306 **304-558-8984**

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
04/23/2008				

BID OPENING DATE: **05/14/2008** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	EA		345-16	Please see LECO quote no. SJ824258 enclosed.	\$93,880.00
<p>CARBON/SULFUR DETERMINATOR</p> <p>TO PROVIDE CARBON/SULFUR DETERMINATOR WITH SOLID STATE INFRARED DETECTION LECO CS600C OR EQUAL</p> <p>DETERMINE CARBON/SULFUR SIMUTANEOUSLY FOR METALS AND INORGANIC MATERIALS COMPUTER INTERFACE. OXYGEN COMBUSTION OF INORGANIC MATERIAL IN A GAS CONTAINING CO2 AND SO2. THE USE OF INFRARED DETECTORS TO QUANTIFY THE AMOUNTS OF CARBON & SULFUR FROM THESE GASES AND COMPARE WITH SIMILAR STANDARD MATERIALS.</p> <p>PER THE ATTACHED SPECIFICATIONS</p> <p>THE MODEL/BRAND/SPECIFICATIONS NAMED HEREIN ESTABLISH THE ACCEPTABLE LEVEL OF QUALITY ONLY AND ARE NOT INTENDED TO REFLECT A PREFERENCE OR FAVOR ANY PARTICULAR BRAND OR VENDOR. VENDORS WHO ARE BIDDING ALTERNATES SHOULD SO STATE AND INCLUDE PERTINENT LITERATURE AND SPECIFICATIONS. FAILURE TO PROVIDE INFORMATION FOR ANY ALTERNATES MAY BE GROUNDS FOR REJECTION OF THE BID. THE STATE RESERVES THE RIGHT TO WAIVE MINOR IRREGULARITIES IN BIDS OR SPECIFICATIONS IN ACCORDANCE WITH SECTION 148-1-4(F) OF THE WEST VIRGINIA LEGISLATIVE RULES AND REGULATIONS.</p> <p>EXHIBIT 10</p>						

is for use with the following
RECEIVED

2008 MAY 14 A 10:18

LETRF WV

REQUISITION NO.:

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>M. Rogers</i>	TELEPHONE 269-983-5531	DATE 5-02-08
TITLE Domestic Sales Coordinator	FEIN 38-0738518	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

**GENERAL TERMS & CONDITIONS
REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)**

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. All quotations are governed by the *West Virginia Code* and the *Legislative Rules* of the Purchasing Division.
4. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125.00 registration fee.
5. All services performed or goods delivered under State Purchase Orders/Contracts are to be continued for the term of the Purchase Order/Contract, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods, this Purchase Order/Contract becomes void and of no effect after June 30.
6. Payment may only be made after the delivery and acceptance of goods or services.
7. Interest may be paid for late payment in accordance with the *West Virginia Code*.
8. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
9. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
10. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
11. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern all rights and duties under the Contract, including without limitation the validity of this Purchase Order/Contract.
12. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
13. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, this Contract may be deemed null and void, and terminated without further order.
14. **HIPAA Business Associate Addendum -** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, and available online at the Purchasing Division's web site (<http://www.state.wv.us/admin/purchase/vrc/hipaa.htm>) is hereby made part of the agreement. Provided that, the Agency meets the definition of a Covered Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division.
2. **SPECIFICATIONS:** Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Complete all sections of the quotation form.
4. Unit prices shall prevail in cases of discrepancy.
5. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
6. **BID SUBMISSION:** All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications.

SIGNED BID TO:

Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130



State of West Virginia
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 Purchasing Division
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ADDRESS CORRESPONDENCE TO ATTENTION OF
MICHAEL AUSTIN 304-558-2402

RFQ COPY

TYPE NAME/ADDRESS HERE

SHIP TO

DIVISION OF HIGHWAYS
 TRAFFIC SERVICES COMPLEX
 190 DRY BRANCH ROAD
 CHARLESTON, WV
 25306 304-558-8984

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
04/23/2008				

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<p>ADDENDUM ACKNOWLEDGEMENT</p> <p>I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.</p> <p>ADDENDUM NO.'S: → None received</p> <p>NO. 1</p> <p>NO. 2</p> <p>NO. 3</p> <p>NO. 4</p> <p>NO. 5</p> <p>I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS.</p> <p>VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.</p> <p style="text-align: right;"> <i>M. Rogers</i> SIGNATURE <i>Leco Corporation</i> COMPANY </p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE

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DATE						
REV. 11/96						
PURCHASING CARD ACCEPTANCE: THE STATE OF WEST VIRGINIA CURRENTLY UTILIZES A VISA PURCHASING CARD PROGRAM WHICH IS ISSUED THROUGH A BANK. THE SUCCESSFUL VENDOR MUST ACCEPT THE STATE OF WEST VIRGINIA VISA PURCHASING CARD FOR PAYMENT OF ALL ORDERS PLACED BY ANY STATE AGENCY AS A CONDITION OF AWARD.						
VENDOR PREFERENCE CERTIFICATE						
CERTIFICATION AND APPLICATION* IS HEREBY MADE FOR PREFERENCE IN ACCORDANCE WITH WEST VIRGINIA CODE, 5A-3-37 (DOES NOT APPLY TO CONSTRUCTION CONTRACTS).						
A. APPLICATION IS MADE FOR 2.5% PREFERENCE FOR THE REASON CHECKED:						
<input type="checkbox"/> BIDDER IS AN INDIVIDUAL RESIDENT VENDOR AND HAS RESIDED CONTINUOUSLY IN WEST VIRGINIA FOR FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION; OR <input type="checkbox"/> BIDDER IS A PARTNERSHIP, ASSOCIATION OR CORPORATION RESIDENT VENDOR AND HAS MAINTAINED ITS HEAD-QUARTERS OR PRINCIPAL PLACE OF BUSINESS CONTINUOUSLY IN WEST VIRGINIA FOR FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION; OR 80% OF THE OWNERSHIP INTEREST OF BIDDER IS HELD BY ANOTHER INDIVIDUAL, PARTNERSHIP, ASSOCIATION OR CORPORATION RESIDENT VENDOR						

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VENDOR ROOM

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BID OPENING DATE: 05/14/2008 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>WHO HAS MAINTAINED ITS HEADQUARTERS OR PRINCIPAL PLACE OF BUSINESS CONTINUOUSLY IN WEST VIRGINIA FOR FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION; OR</p> <p>() BIDDER IS A CORPORATION NONRESIDENT VENDOR WHICH HAS AN AFFILIATE OR SUBSIDIARY WHICH EMPLOYS A MINIMUM OF ONE HUNDRED STATE RESIDENTS AND WHICH HAS MAINTAINED ITS HEADQUARTERS OR PRINCIPAL PLACE OF BUSINESS WITHIN WEST VIRGINIA CONTINUOUSLY FOR THE FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION.</p> <p>B. APPLICATION IS MADE FOR 2.5% PREFERENCE FOR THE REASON CHECKED:</p> <p>() BIDDER IS A RESIDENT VENDOR WHO CERTIFIES THAT, DURING THE LIFE OF THE CONTRACT, ON AVERAGE AT LEAST 75% OF THE EMPLOYEES WORKING ON THE PROJECT BEING BID ARE RESIDENTS OF WEST VIRGINIA WHO HAVE RESIDED IN THE STATE CONTINUOUSLY FOR THE TWO YEARS IMMEDIATELY PRECEDING SUBMISSION OF THIS BID;</p> <p>OR</p> <p>() BIDDER IS A NONRESIDENT VENDOR EMPLOYING A MINIMUM OF ONE HUNDRED STATE RESIDENTS OR IS A NONRESIDENT VENDOR WITH AN AFFILIATE OR SUBSIDIARY WHICH MAINTAINS ITS HEADQUARTERS OR PRINCIPAL PLACE OF BUSINESS WITHIN WEST VIRGINIA EMPLOYING A MINIMUM OF ONE HUNDRED STATE RESIDENTS WHO CERTIFIES THAT, DURING THE LIFE OF THE CONTRACT, ON AVERAGE AT LEAST 75% OF THE EMPLOYEES OR BIDDERS' AFFILIATE'S OR SUBSIDIARY'S EMPLOYEES ARE RESIDENTS OF WEST VIRGINIA WHO HAVE RESIDED IN THE STATE CONTINUOUSLY FOR THE TWO YEARS IMMEDIATELY PRECEDING SUBMISSION OF THIS BID.</p> <p>BIDDER UNDERSTANDS IF THE SECRETARY OF TAX & REVENUE</p>						

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<p>DETERMINES THAT A BIDDER RECEIVING PREFERENCE HAS FAILED TO CONTINUE TO MEET THE REQUIREMENTS FOR SUCH PREFERENCE, THE SECRETARY MAY ORDER THE DIRECTOR OF PURCHASING TO: (A) RESCIND THE CONTRACT OR PURCHASE ORDER ISSUED; OR (B) ASSESS A PENALTY AGAINST SUCH BIDDER IN AN AMOUNT NOT TO EXCEED 5% OF THE BID AMOUNT AND THAT SUCH PENALTY WILL BE PAID TO THE CONTRACTING AGENCY OR DEDUCTED FROM ANY UNPAID BALANCE ON THE CONTRACT OR PURCHASE ORDER.</p> <p>BY SUBMISSION OF THIS CERTIFICATE, BIDDER AGREES TO DISCLOSE ANY REASONABLY REQUESTED INFORMATION TO THE PURCHASING DIVISION AND AUTHORIZES THE DEPARTMENT OF TAX AND REVENUE TO DISCLOSE TO THE DIRECTOR OF PURCHASING APPROPRIATE INFORMATION VERIFYING THAT BIDDER HAS PAID THE REQUIRED BUSINESS TAXES, PROVIDED THAT SUCH INFORMATION DOES NOT CONTAIN THE AMOUNTS OF TAXES PAID NOR ANY OTHER INFORMATION DEEMED BY THE TAX COMMISSIONER TO BE CONFIDENTIAL.</p> <p>UNDER PENALTY OF LAW FOR FALSE SWEARING (WEST VIRGINIA CODE 61-5-3), BIDDER HEREBY CERTIFIES THAT THIS CERTIFICATE IS TRUE AND ACCURATE IN ALL RESPECTS; AND THAT IF A CONTRACT IS ISSUED TO BIDDER AND IF ANYTHING CONTAINED WITHIN THIS CERTIFICATE CHANGES DURING THE TERM OF THE CONTRACT, BIDDER WILL NOTIFY THE PURCHASING DIVISION IN WRITING IMMEDIATELY.</p> <p>BIDDER: <u>Leeco Corporation</u></p> <p>DATE: <u>5/12/08</u></p> <p>SIGNED: <u>M. Rogers</u></p>						

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<p>TITLE: <i>Domestic Sales Coordinator</i></p> <p>* CHECK ANY COMBINATION OF PREFERENCE CONSIDERATION(S) IN EITHER "A" OR "B", OR BOTH "A" AND "B" WHICH YOU ARE ENTITLED TO RECEIVE. YOU MAY REQUEST UP TO THE MAXIMUM 5% PREFERENCE FOR BOTH "A" AND "B". (REV. 12/00)</p> <p>NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p>DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130</p> <p>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:</p> <p>SEALED BID</p> <p>BUYER: 33</p> <p>RFQ. NO.: 7780075</p> <p>BID OPENING DATE: 05/14/2008</p> <p>BID OPENING TIME: 1:30 PM</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
TITLE	FAX	ADDRESS CHANGES TO BE NOTED ABOVE

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LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID: 269-982-8977 ----- CONTACT PERSON (PLEASE PRINT CLEARLY): Melissa Rogers ----- ***** THIS IS THE END OF RFQ 7780075 ***** TOTAL: <u>\$93,880.00</u>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>m Rogers</i>	TELEPHONE	DATE <i>5/12/08</i>
TITLE	FERN	ADDRESS CHANGES TO BE NOTED ABOVE

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LECO CORPORATION

3000 Lakeview Avenue St. Joseph, MI 49085-2396 U.S.A.
Phone: (269) 985-5496 Facsimile: (269) 982-8977

Quote No.: SJ8 24258

State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Charleston WV 25305-0130


Reference: RFQ Number 7780075
Date: 5/12/2008
Terms: Net 30 Days
Currency: U.S. Dollars
Valid Thru: 6/26/2008
Delivery: 7-8 Weeks ARO

Attention: Michael Austin

Phone: 304-558-2402

Page 1

Prices quoted are valid for domestic end use only.

Part No.	Product Description	Quantity	Unit Price	Total
CS600C	CS600 simultaneous, direct reading Carbon/Sulfur determinator, flat panel display and PC tower. Complete Installation includes: - 618-100-100 CS600 Carbon/Sulfur measurement unit and programmable high frequency induction furnace. 230 volts; 20 amps; 50/60Hz; single phase. ASCII serial data output. Includes automatic combustion zone cleaning dust removal. - PC tower and assembly (Windows operating system) - 617-737 flat panel display (15") - 259-034 LECO CS600 Windows software kit Also includes auxiliary items and operating supplies.	1	74,350.00	74,350.00
625-512	Kit Loader Shuttle Cs600 Sn 3186 Up	1	15,210.00	15,210.00
751-300-160	LECO Model 250 Balance and interface kit, readability 0.1mg, 120 gram capacity, computer interface capability.	1	3,720.00	3,720.00
				93,280.00
UPS Freight FOB St Joseph, MI				600.00
				93,880.00
LECO CORPORATION		 James Bartoe		

Please feel free to contact Anthony Centofanti at 304-542-0543 or Melissa Rogers at 800-292-6141.



Part No.	Product Description	Quantity	Unit Price	Total
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TERMS AND CONDITIONS

Payment/Title Retention

Net 30 days from the invoice date, subject to approved credit. Purchaser's delay in installation shall not extent the payment due date. Beneficial and legal title shall remain with LECO Corporation until payment is made by the purchaser.

Shipment

F.O.B. Shipping point. Freight charges are the responsibility of the purchaser.

Pre-installation*

Prior to installation, the purchaser will receive a pre-installation guide. This guide provides a list of requirements to be met prior to installation of the unit(s) by a qualified LECO representative.

Installation*

The quoted price includes installation, start-up and on-site training for the purchaser's staff by a qualified LECO representative. Prior to installation of the LECO product, the purchaser will be contacted to (1) assure that the pre-installation guidelines have been completed and (2) arrange for the installation of the LECO product.

Upon completion of the installation, the purchaser will be presented with a copy of the Acceptance Report.

Warranty

The following applies to products purchased from the LECO Corporation.

- 1) Instruments and Equipment manufactured by LECO Corporation are warranted to be free from defects in material and workmanship for a period of six months from date of shipment, unless otherwise stated in writing by LECO. LECO will repair or replace, free of charge, any part(s) which prove to be defective. This obligation does not necessarily include labor or travel expense to repair or replace defective part(s), nor does it cover failure due to accident, abuse, neglect or misuse per instruction provided.
- 2) Instruments and Equipment distributed by LECO Corporation will be covered by LECO to the extent of the warranty provided by the original manufacturer. Complete warranty information is provided with the product(s). Copies of warranties may be requested (in writing) in advance of any purchase or shipment.

* Applies only to Analytical Instrumentation

**LECO CORPORATION**

300 Lakeview Avenue • St. Joseph, MI 49885-2386 U.S.A.

Phone: (269) 983-5531 • Telex: 211605 • Facsimile: (269) 983-3850

The following information is submitted in response to your recent request for credit information on LECO CORPORATION. Please note that LECO is a privately-owned, closely-held company and issuance of our financial statements is limited to our banks.

Main Office/Plant/Warehouse Billing & Shipping Address:	LECO CORPORATION 3000 Lakeview Avenue St. Joseph, MI 49085
Telephone:	(269) 983-5531
Facsimile:	(269) 983-3850
Internet Address	www.leco.com
Incorporated:	October 1, 1936 in Michigan
Officers:	<i>Robert J. Warren, President</i> <i>Elizabeth S. Warren, Exec. Vice President & Treasurer</i> <i>Joel D. DeBruyne, Financial Director & Secretary</i> <i>B. John Hawkins, Vice President – Pacific Rim</i> <i>Stuart R. Eley, Vice President – Europe</i> <i>Larry S. O'Brien, Vice President – Research</i>
Nature of Business:	Analytical & Metallographic Instruments & Supplies, and Refractory Ceramics
Trade References:	
SGL Carbon, LLC 8600 Bill Ficklen Drive Charlotte, NC 28269 Phone: (800) 593-5192 Fax #: (704) 593-5120 Attn: Collection Specialist	Sartorius Corporation 131 Heartland Blvd. Edgewood, NY 11717 Phone: (800) 635-2906 Fax #: (516) 254-4261 Attn: Credit Manager, Extension 1319
Central Steel & Wire P. O. Box 5100 Chicago, IL 60680-5100 Phone: (800) 621-8510 Fax #: (800) 232-9279 Attn: Manager of Credit	Depatie Fluid Power 6256 American Ave. Kalamazoo, MI 49003 Phone: (269) 324-2850 Fax #: (269) 329-2740 Attn: Jackie Arcand
Dun & Bradstreet:	Rating 5A1 (Since 1984) DUNS Number 00-506-8861
Federal I.D. No.	38-0738518
SIC CODE	3826
NAICS CODE	334516
ISO 9001:2000 CERTIFIED	Certificate No. FM 24045
LECO is a Registered FCC Testing Facility.	
LECO is a Competent Body for European Community Compliance Testing.	

Banks:

Chemical Bank Shoreline	Comerica Bank
823 Riverview Drive,	151 South Rose
P.O. Box 1248	MC 9540
Benton Harbor, MI 49022	Kalamazoo, MI 49007
Mr. Len Amat	Mr. Tim Kilmartin
Phone: (269) 934-1062	Phone: (269) 383-6686
Fax: (269)-934-1058	Fax: (269) 383-6549

Employees: Approximately 650 (Domestic Locations Only)

Divisions:

Tem-Pres – Bellefonte, Pennsylvania
 Ceramics Manufacturing, Benton Harbor, Michigan
 LECO RF Products - West Bend, Wisconsin
 Pier 33 Marina –St. Joseph, Michigan:
 Sales and Service Office in:

Las Vegas, Nevada
 Fort Myers, Florida

Subsidiaries:

LECO Africa (PTY) Limited - Johannesburg, South Africa
 LECO Korea - Seoul, Korea
 LECO Australia PTY Ltd. - Sydney, Australia
 LECO Argentina S.A.-Buenos Aires, Argentina
 LECO Europe B.V. - Geleen, Netherlands
 LECO Center Moscow - Moscow, Russia
 LECO Corporation Svenska AB – Stockholm, Sweden
 LECO France S.A.R.L. - Paris, France
 LECO Instrumente, GmbH – Munich, Germany
 LECO Instrumente Plzen SPOL S.R.O. - Plzen, Czech Republic
 LECO Polska Sp.z o.o. - Katowice, Poland
 LECO Instruments (U.K.) Limited - Manchester, England
 LECO Italy S.R.L. - Milan, Italy
 LECO Instruments Hong Kong Limited, Hong Kong
 LECO Instruments, Limited – Toronto, Ontario, Canada
 LECO Instrumentos LTDA - Rio de Janeiro, Brazil
 LECO Instrumentos, S.A. - Madrid, Spain
 LECO Mexico,S.A. de C.V. - Mexico City, Mexico
 LECO Vietnam Co., Ltd. – Ho Chi Minh City, Vietnam
 LECO Venezuela, Caracas, Venezuela
 LECO Taiwan - Taipei, Taiwan
 LECO Malaysia – Kuala Lumpur, Malaysia
 LECO Japan Corporation – Tokyo, Japan
 LECO Thailand – Bangkok, Thailand

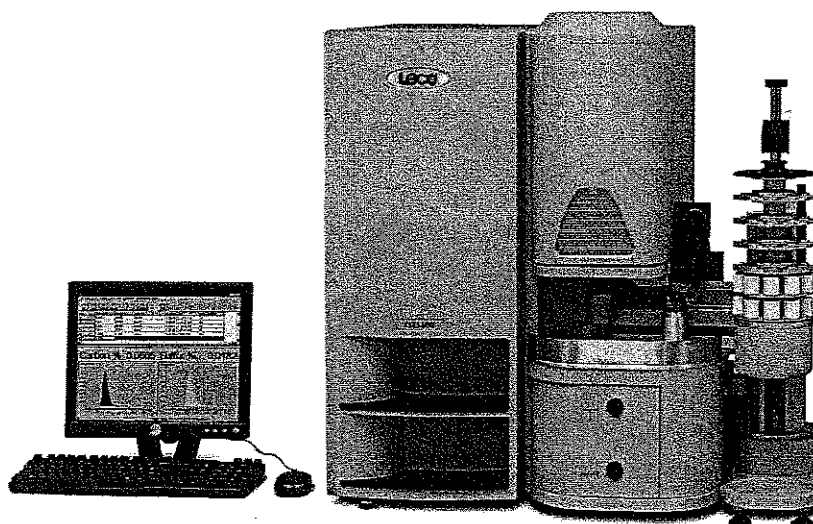
Questions regarding your account should be directed to (269) 982-2373.

Very truly yours,

Joel D. DeBruyne
 Financial Director & Secretary

Shuttle Loader—CS-Series Specification Sheet

Sample Capacity	Up to 60 using six 10-position trays
Typical Sample Size	Dependent on CS-Series instrument specifications
Sample Analysis Time	
Standard:	Approximately 1 minute
Shuttle Loader:	Approximately 7 additional seconds
Gases Required	Compressed Air @ 40 psi (2.76 bars) \pm 10%
Operational Control	CS600-Series Windows®-based software (V 3.10 and above) CS230-Series Windows-based software (V 2.00 and above)
Autocleaner	Required
Physical Dimensions	
Height:	19 inch (48 cm); 27.75 inch (70.5 cm) at highest extended position
Width:	6.75 inch (17 cm)
Depth:	11.75 inch (30 cm)
Shuttle Loader Weight	25.4 lb. (9.5 kg)
Electrical Requirements	No additional electrical requirements
Operating Conditions	
Temperature:	15 to 40°C (60 to 104°F)
Part Numbers	
625-511	Shuttle Loader Kit for CS600-Series, SN 3185 and lower
625-512	Shuttle Loader Kit for CS600-Series, SN 3186 and higher
625-513	Shuttle Loader Kit for CS230-Series, without Autocleaner
625-514	Shuttle Loader Kit for CS230-Series, with Autocleaner



V-- denotes VAC.

Theory of Operation

The LECO Shuttle Loader is designed to automate the sequential or non-sequential processing up to 60 pre-weighed samples when interfaced with the CS-Series of elemental determinators. The system consists of an expandable carousel stack, featuring six stackable carousels that hold ten samples each, and a dual gripper shuttle that provides seamless automation with a sturdy design for minimal maintenance.

Pre-weighed crucibles are placed onto the carousels and are shuttled to the pedestal for analysis by one of the dual grippers. During the analysis of the first sample, the gripper collects the second sample and proceeds to a staging position until the first analysis is complete. Upon completion of the first analysis, the other gripper removes the analyzed sample from the pedestal and loads the second sample with a simple rotation. During the second sample analysis, the loader shuttles the analyzed sample to the integrated storage area, collects the third sample for analysis, then shuttles to the staging area to restart the process.

With a robust design that minimizes downtime, this autoloader is the perfect solution for high-throughput laboratories requiring unattended analyses. Dependable stepper motors with low-maintenance rails are used to improve the reliability of the system, and to alleviate the need for manual adjustments. Windows®-based software simplifies the alignment procedure and helps to ensure long-term stability in the system.

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Specifications and part numbers may change. Consult LECO for latest information.

CS600 Carbon/Sulfur Determinator

Specification Sheet

Instrument Range at 1 g*

Carbon: 0.6 ppm to 6.0%
Sulfur: 0.6 ppm to 0.4%

Precision**

Carbon: 0.3 ppm or 0.5% RSD;
whichever is greater
Sulfur: 0.3 ppm or 0.5% RSD;
whichever is greater

Readability†

Carbon: 0.001 ppm
Sulfur: 0.001 ppm

Calibration

Standards (single or multi-point);
manual; gas dose

Analysis Time

40 seconds nominal

Sample Size

1 g nominal

Detection Method

Non-dispersive infrared absorption

Chemical Reagents

- Anhydrous Magnesium Perchlorate (MgClO₄)
- Sodium Hydroxide on an inert base
- Platinized Silica Gel
- Rare Earth Copper Oxide
- Cellulose

Gas Requirements

Carrier: Oxygen, 99.6% pure, 35 psi (2.41 bar) ±10%
Pneumatic: Compressed Air, 40 psi (2.76 bar) ±10%, source must be oil and water free
Dosing (optional)
Carbon: Carbon Dioxide, 99.99% pure, 20 psi (1.38 bar) ±10%

Gas Flow Rates

Carrier: 3 l/minute
Pneumatic: 1 l/analysis

Furnace

Induction; 18 MHz, 2.2 kW maximum (rampable; 0 to 100% power)

Data Storage

Weight List: No practical limit
Result List: No practical limit

Printer (external)

Color Deskjet Printer (optional)
Dot Matrix Printer (optional)

Environmental Conditions

Operating Temp: 50 to 86°F
Rel. Humidity: 20 to 80%, non-condensing

Single Furnace/Determinator Dimensions**

32 in. H x 28 in. W x 27 in. D (81 x 71 x 69 cm)

Electrical Power Requirements

Determinator: 230 V~ (±10%; Under Max Load),
20 Amps
Computer: 115/230 V~ (±10%), 50/60 Hz, 5/3 A
Monitor: 90 to 264 V~, 50/60 Hz, 1.6 A

Weight (approximate)

CS600 355 lb. (161 kg)
Total Shipping 405 lb. (184 kg)

Part Numbers

CS600C Carbon/Sulfur Determinator with Windows®-based software, free-standing PC, and flat panel display

Options

618-430 Batch Loader Kit
625-511 Shuttle Loader Kit (SN 3185 and below)
625-512 Shuttle Loader Kit (SN 3186 and above)
621-434-110 Deskjet Printer Kit (110 V)
612-917 Dot Matrix Printer Kit (110 V); Serial
751-300-160 L-250 Balance and Interface Kit (0.1 mg)
750-000-160 L-050 Balance and Interface Kit (1.0 mg)
501-291 Oxygen Regulator
768-593 CO₂ Regulator
766-036 Air Regulator
615-763 SmartLine® Modem-Based Remote Diagnostics
710-198-B/O SmartLine Internet-Based Remote Diagnostics
604-570-110 ADA-200 Automatic Accelerator Dispenser (115 V)
604-570-120 ADA-200 Automatic Accelerator Dispenser (220 V)
603-620 ADM-10 Manual Accelerator Dispenser
TF10 Dual-Tube Resistance Furnace (crucible burn-off)
TF-1 Single-Tube Resistance Furnace (crucible burn-off)

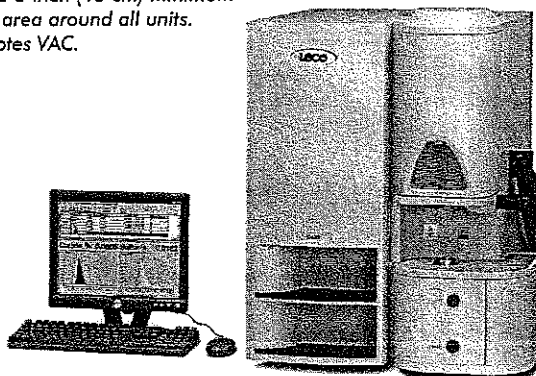
*The range may be extended beyond listed values.

**One sigma, conformance tested by gas dose analysis.

†Display capability.

‡Allow a 6-inch (15 cm) minimum access area around all units.

V~ denotes VAC.



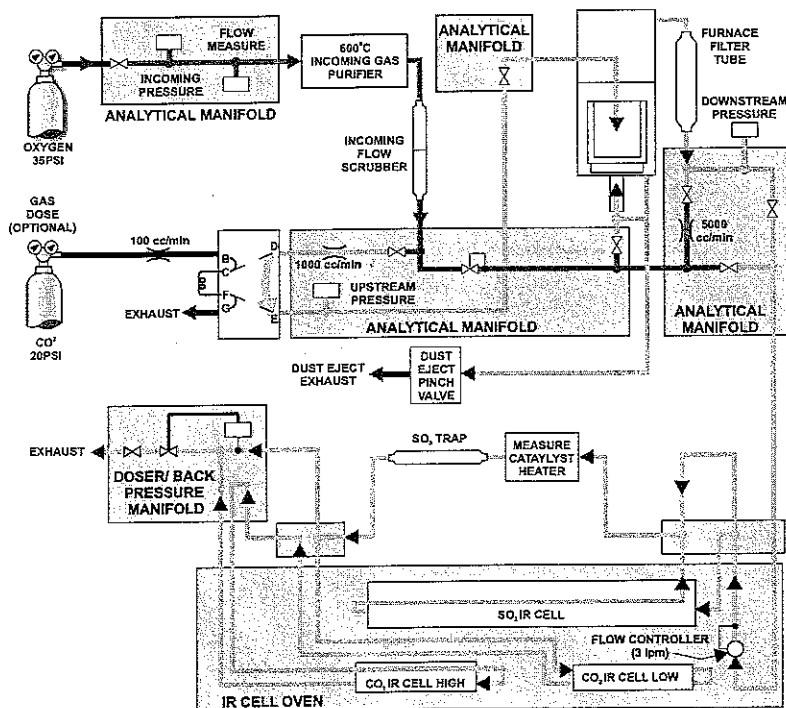
Theory of Operation

The CS600 Carbon/Sulfur system is designed for wide-range measurement of carbon and sulfur content of metals, ores, ceramics, and other inorganic materials. The instrument features a Windows®-based operating system.

A pre-weighed sample of ~1 gram is combusted in a stream of purified oxygen. The carbon in the sample is oxidized primarily to carbon dioxide (CO₂) with some carbon monoxide (CO) possibly being produced. The sulfur is oxidized to sulfur dioxide (SO₂). These gases are swept, along with the oxygen, through a dust filter and drying reagent into an infrared cell (IR) where sulfur is detected as SO₂. The gases are then routed through a heated catalyst which converts CO to CO₂ and SO₂ to sulfur trioxide (SO₃). The SO₃ is removed by a filter and CO₂ is subsequently measured in separate IR cells. Carbon measurements will be made based on the range selected. The low carbon range features a longer path-length IR cell, while the high carbon range utilizes a shorter path-length IR cell. The difference in path length assures optimum resolution for the range selected. The instrument automatically chooses the optimum detection range.

CO₂ and SO₂ absorb IR energy at precise wavelengths within the IR spectrum. Energy at these wavelengths is absorbed as the gases pass through respective IR absorption cells. Changes in energy are then observed at the detectors. The absorption of IR energy is attributed to only CO₂ or SO₂ (depending on the cell), and its concentration is then determined. Each IR cell serves as both a reference and measure chamber.

Flow Diagram



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Delivering the Right Results

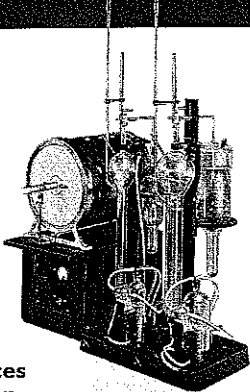


Step	Start	End	Analysis Time
Blank	01/24/00 11:23:38 AM		50
Blank	01/24/00 11:44:29 AM		50
Blank	01/24/00 11:46:29 AM		50
Blank	01/24/00 11:51:05 AM		50
Blank	01/24/00 11:53:19 AM		50
Blank	01/24/00 11:55:29 AM		50

% 0.0685 Sulfur % 0.0188

CS600 Carbon/Sulfur Series

CS600 Carbon/Sulfur Series

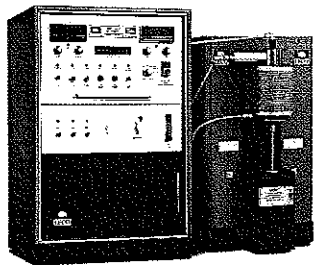


LECO introduces combustion-based "Rapid" Volumetric Carbon Determinator suitable for production control

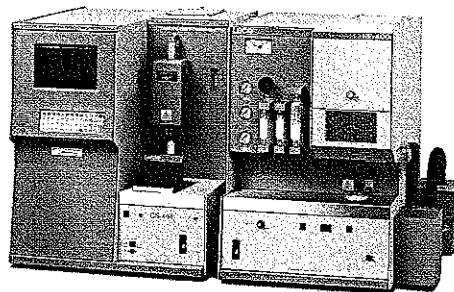
Advanced solutions for your most demanding carbon/sulfur requirements.

Since 1936 LECO has proven itself as the world leader in providing high-performance Carbon/Sulfur analysis instrumentation. Our determinators are designed to meet and exceed the ever-increasing requirements of R & D, production control, and quality assurance.

Today this commitment continues with the CS600 Series. By combining LECO's proven combustion technology with state-of-the-art advancements, you are able to analyze a wider variety of metals and inorganic materials with greater accuracy, precision, and ease-of-use.

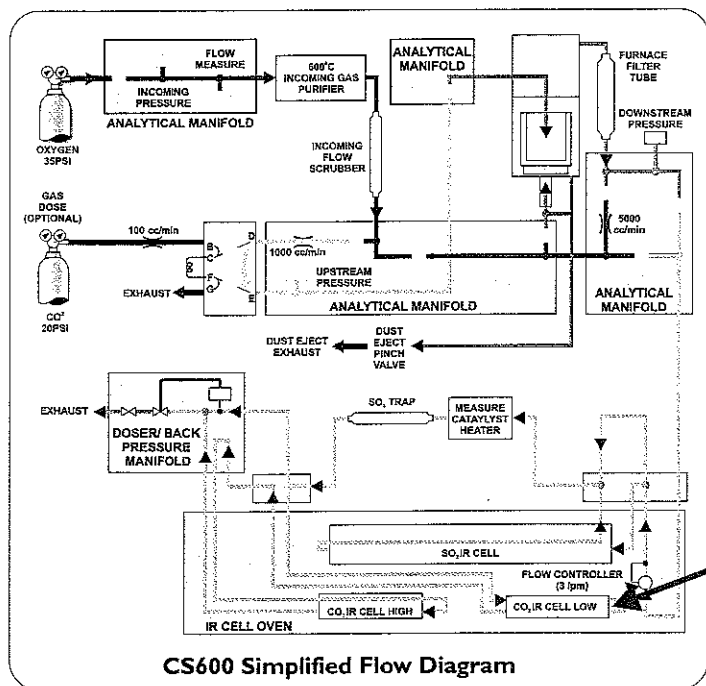


Introduction of simultaneous Carbon/Sulfur Determinator (featuring IR Detection) with improved speed and accuracy

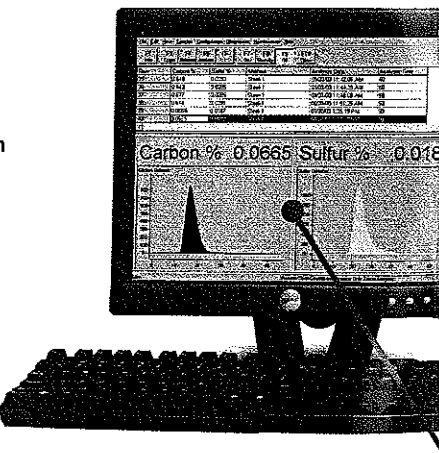
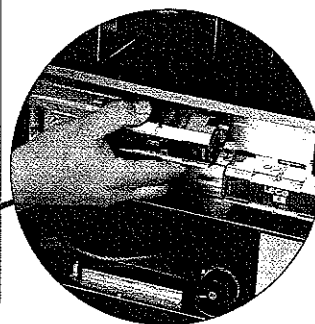


Implementation of sub-ppm detection limits, a wide dynamic range, and advanced database capabilities

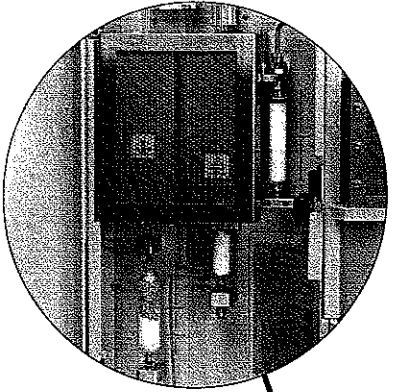
Innovative control hardware deliver optimum



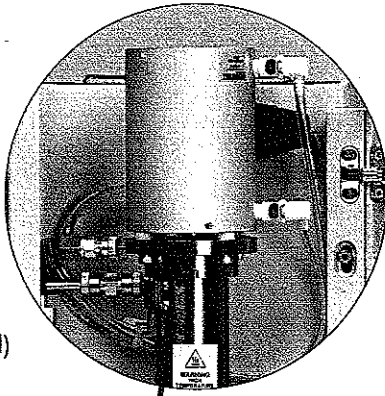
- Segmented leak check
- Optimized stability—requires less calibration
- Auto high/low analyte detection
- Exclusive ECLIPSE network protocol



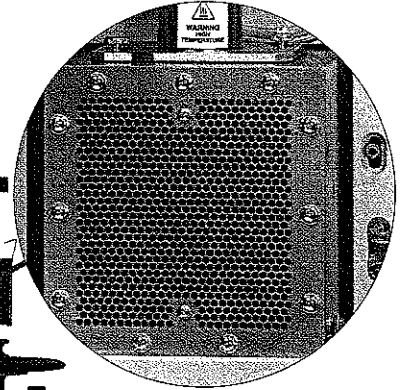
Patented Solid State Infrared Detection
Features no moving parts or manual adjustments, as well as the ability to upgrade from dedicated C or S to simultaneous C/S determination



Reengineered Reagent Train
 (safety-protected behind cabinet shield)
 Promotes increased reagent life while improving analyte and carrier gas transfer



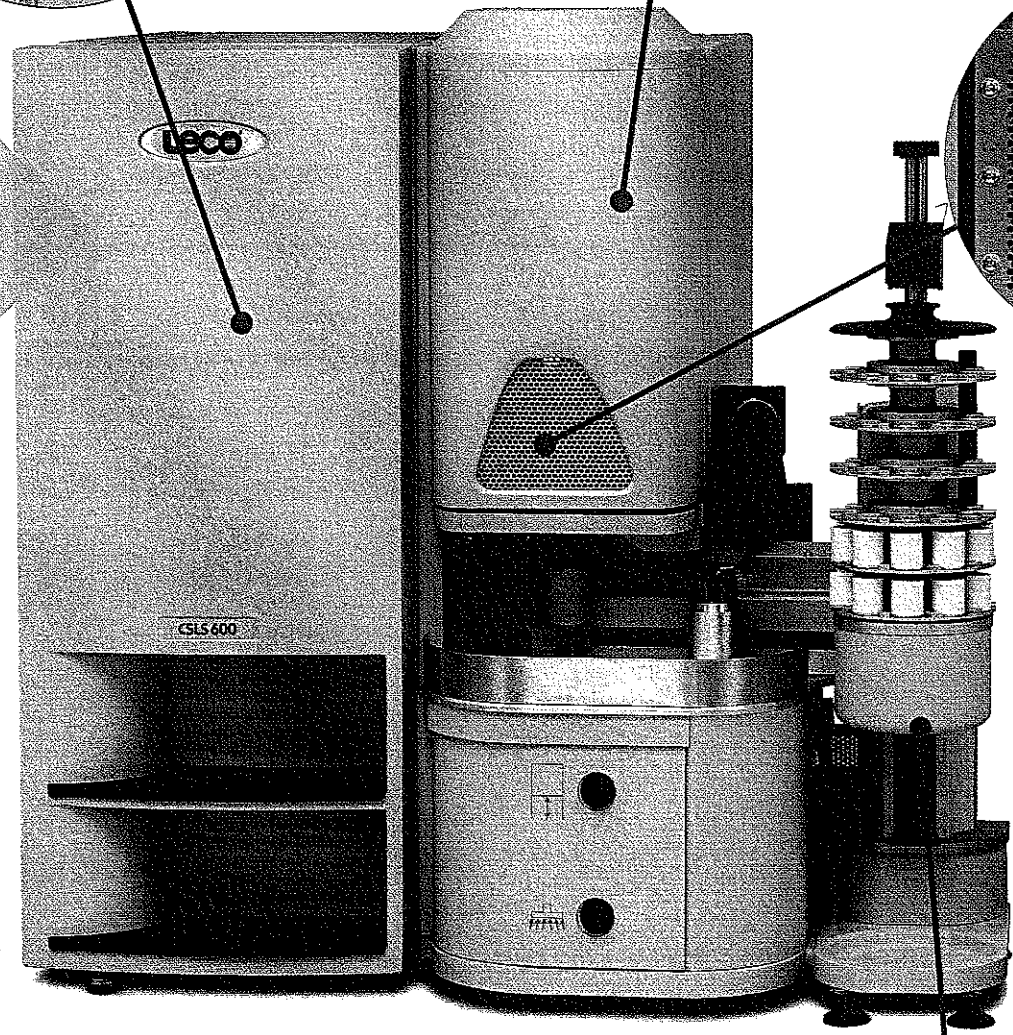
Programmable Autocleaner
 Provides dual-zone cleaning with dust removal for a cleaner sample environment



High-Frequency Induction Furnace
 Offers programmable power levels



Communications and software performance



Windows®-Based Operating System

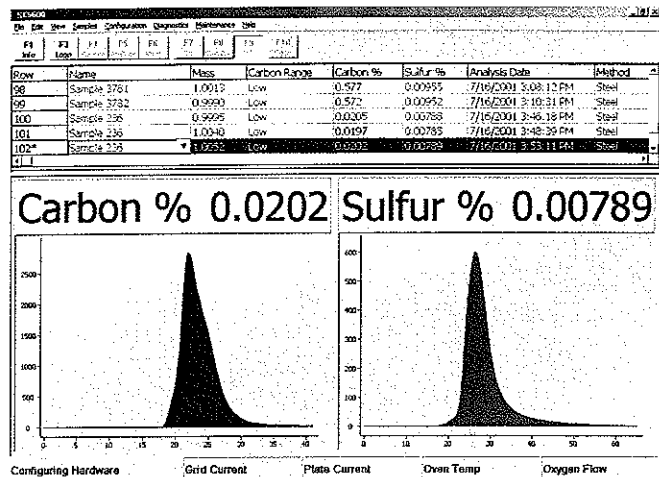
Maximizes flexibility for all operation, security, and diagnostic modes

Shuttle Autoloader

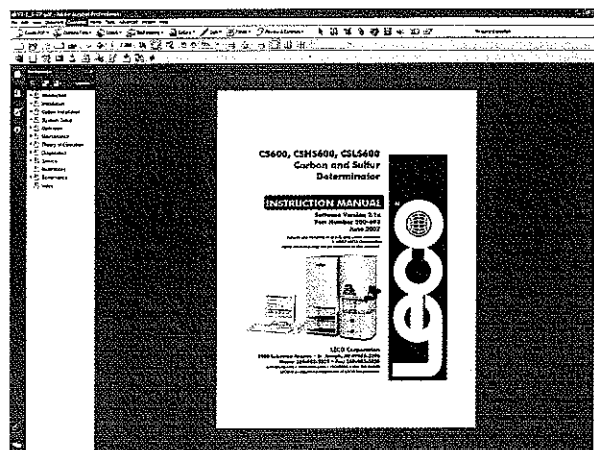
Optional 60-position carousel with integrated crucible load/unload

Easy-to-Use Windows® Based Interface

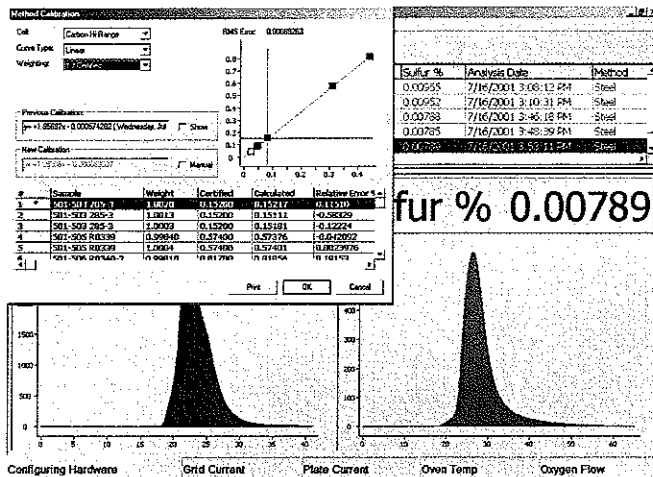
The Windows® toolbars and drop-down menus make it easy to set parameters for calibration, method development, and data processing. The PC interface also includes advanced diagnostics, extended archiving, and flexible reporting capabilities. A thorough on-board manual, including illustrations and screen captures, quickly gives you the direction you need without having to leave your instrument.



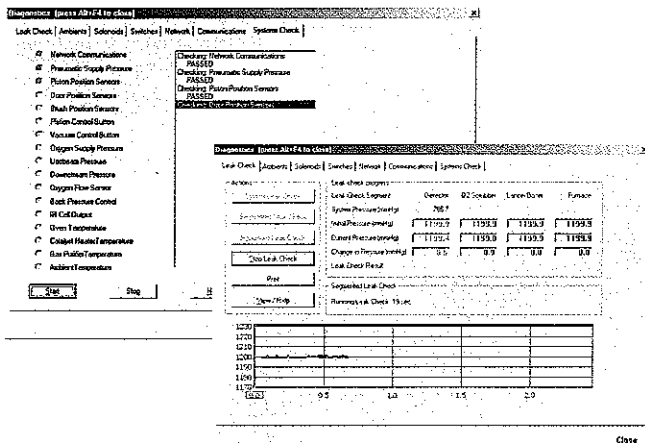
Standard Interface incorporates data spreadsheet and sample plots



On-Board Manual



Calibration Screen detailing linear, multi-point calibration



Real-Time Diagnostics

Available Models

CS600 Carbon/Sulfur Determinator Specification Sheet 209-120-001	CSLS600 Carbon/Low Sulfur Determinator Specification Sheet 209-120-004	SDR600 Sulfur Dual-Range Determinator Specification Sheet 209-120-007
C600 Carbon Determinator Specification Sheet 209-120-002	CSHS600 Carbon/High Sulfur Determinator Specification Sheet 209-120-005	WC600 Carbon Determinator Specification Sheet 209-120-008
S600 Sulfur Determinator Specification Sheet 209-120-003	SHS600 High Sulfur Determinator Specification Sheet 209-120-006	CHSDR600 High Carbon Dual-Range Determinator Specification Sheet 209-120-009

Options

Sample Autoloader	Printer	Interfaced Balance Kit	SmartLine® Remote Diagnostics
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