

LABORATORY EQUIPMENT OVERVIEW

| Analyzer Model/Specifications | SuperC AMF | 2010L | 9600L | 9600L Gold |
|--|------------|----------|----------|------------|
| Total Chlorides (UOP 930-07) | N/A | OPTIONAL | OPTIONAL | X |
| Total Sulfur ASTM D4045,D4468 (default impurity) | N/A | X | X | X |
| Nitrogen Oxides (NOx) | N/A | N/A | OPTIONAL | OPTIONAL |
| Elemental Analysis ASTM D4084 | X | X | OPTIONAL | X |
| High Temp furnace Regeneration | N/A | N/A | OPTIONAL | X |
| Windows Based CI Smart controls software | X | X | X | X |
| Dual range injection loop | OPTIONAL | OPTIONAL | X | X |
| Digital Flow control | X | OPTIONAL | X | X |
| Sample pump (Gas Bag samples) | OPTIONAL | OPTIONAL | OPTIONAL | X |
| Liquids | N/A | OPTIONAL | OPTIONAL | X |
| Dry Colorimetric detector | X | X | X | X |
| Desktop Computer | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL |
| Laptop Computer | X | X | X | X |
| Model 210 Gas & liquids syringe injector | N/A | OPTIONAL | OPTIONAL | X |
| Model 960 AMF Cali-blend gas generator | OPTIONAL | OPTIONAL | OPTIONAL | X |
| Model 9610 Liquid auto injector | N/A | OPTIONAL | OPTIONAL | X |
| LPG Station | N/A | OPTIONAL | OPTIONAL | X |
| Built in LPG | OPTIONAL | N/A | N/A | N/A |
| LIMS Compatible | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL |

ELEMENTAL APPLICATIONS

| Impurity | LDL (Gas,LPGs)* |
|-------------------------------------|-----------------|
| Ammonia (NH ₃) | 30 ppb |
| Arsine (AsH ₃) | 1 ppb |
| Chlorine (Cl ₂) | 5 ppb |
| Hydrogen Chloride (HCl) | 200 ppb |
| Hydrogen Cyanide (HCN) | 50 ppb |
| Hydrogen Fluoride (HF) | 500 ppb |
| Hydrogen Sulfide (H ₂ S) | 1 ppb |
| Nitrogen Dioxide (NO ₂) | 5 ppb |
| Phosgene (COCl ₂) | 1 ppb |
| Phosphine (PH ₃) | 1 ppb |
| Sulfur Dioxide (SO ₂) | 20 ppb |
| Other | Contact us |

TYPICAL APPLICATIONS

| Impurity | LDL (Gas,LPGs)* | LDL(Liquids)* |
|-----------------------------------|-----------------|---------------|
| Total Sulfur | 1 ppb | 0.1 ppm |
| Total Chlorides | 200 ppb | 0.5 ppm |
| Nitrogen Oxides(NO _x) | 5 ppb | - |
| Other | Contact us | |

* Informational purposes only. Subject to change without prior notice. LDL can be optimized further depending on your specific application parameters.

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CI ANALYTICS LABORATORY ANALYZERS

CI Analytics takes pride in providing you with the very best in high-performance laboratory instruments. With over a decade of experience, delivering custom products to satisfied customers. CI analyzers are designed to ensure consistent, accurate results each and every time. All our products can be customized to your specific requirements.

The following table provides an overview of CI Analytics' laboratory equipment. Refer to individual product flyers for more information and technical specifications.

TECHNICAL SPECIFICATIONS

| Analyzer Model/Specifications | 9600L GOLD | 9600L | 2010L | SUPERC AMF |
|---------------------------------------|--|--|---|--|
| Available Applications | ALL-IN-ONE Includes most applications from Typical & elemental Tables | Choose from: Typical application (1) Elemental (3) | Choose from: Typical application (1) Elemental optional | One choice of elemental |
| Repeatability | Better than $\pm 2\%$ F.S.* | Better than $\pm 2\%$ F.S.* | | Better than $\pm 2\%$ F.S.* |
| Stability | Automatic zero offset compensation before every analysis | | | |
| Sample Phase | Gas, Liquids, LPGs (with LPG option) | | | Gas, LPGs (with LPG option) |
| Analysis Time | 30 seconds to 20 minutes (based upon required accuracy, sample phase and target concentration) | | | |
| Detection Technique | Advanced Dry Colorimetric Sensi-Tape® with Tri-Color adaptive optics block | | | |
| Calibration | Manual or Software-assisted calibration with 960AMF Cali-Blend Gas Generator | | | |
| Preheater Temperature | 77°F to 1112°F (25°C to 600°) | | | N/A |
| Reactor Temperature | 77°F to 2012°F (25°C to 1100°C) | | | N/A |
| External Outputs | USB and C.I. Net Expansion Port, Ethernet Port, MODBUS (Optional) | | | |
| User Interface | Microsoft Windows® - based CiSmart software with external laptop or desktop computer | | | |
| Power Requirements | 110, 120, 220 or 240VAC 50/60Hz, 2400VA | 110, 120, 220 or 240 50/60Hz, 2400VA | 120 or 240VAC 50/60 Hz, 100VA | |
| Dimensions (H x W x D) | 23" x 35" x 23" (59 cm x 89 cm x 59 cm) | | | 23" x 35" x 23" (59 cm x 89 cm x 59 cm) |
| Approximate Weight (option dependent) | 280 lbs (113kg) | 280 lbs (113kg) | 54 lbs (25 kg) | |

* Repeatability $\pm 2\%$ F.S. with MFC option, $\pm 5\%$ F.S. standard

* This publication is not intended to form the basis of a contract. CI Analytics reserves the right to amend the design and specifications of instruments without prior notice



MODEL 9600L & 9600L GOLD

The 9600L is our premium product in lab analysis. It contains the best and most innovative technologies available. Features, such as a multiple impurity detection and dual range capability, equip your lab to be prepared for tomorrow's stringent environmental and quality standards. The 9600L GOLD comes standard with digital flow control and a special accessory package.



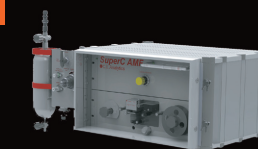
MODEL 2010L

Our 2010L Lab Analyzer provides you with the fundamentals. Equipped with a laptop computer and C.I. net expansion port, it successfully answers your needs. This low-maintenance analyzer will provide repeatable and accurate results. Digital mass flow controls and a full line of accessories are available as options.



MODEL SUPERC AMF

SuperC AMF is a fully automated multi-element analyzer. It allows the precise quantification of multiple impurities in gas, LPGs and low-pressure samples. Digital flow control enables the SuperC AMF to detect ultra low levels of impurities in polymer-grade ethylene, propylene and light hydrocarbons. The SuperC AMF can analyze up to eleven (11) different impurities.



MODEL 960AMF CALIBRATION BLEND GENERATOR



A fully-automated, multi-compound calibration blend generator that provides you with maximum flexibility and accuracy when calibrating. The 960AMF can be used as a stand-alone unit to calibrate other analyzers or be controlled from your analyzer's CiSmart Software for maximum ease of use.

MODEL 210 GAS & LIQUID SYRINGE AUTO-INJECTOR



Provides constant-rate syringe injection of liquid or gas samples. The Model 210 is designed for very small sample volumes and slow injection speed. It is configurable from the CiSmart Software. The Model 210 offers a wide selection of syringe adapters for standard Hamilton syringes of 10 μ l up to 10000 μ l.

MODEL 9610 LIQUID AUTO-INJECTOR



The Model 9610 provides intermittent injections of your sample into the analyzer. Its sample introduction rate is both precise and accurate, eliminating the possibility of human error. This unit is used when performing Total Sulfur or Total Chlorides analysis on models 2010L and 9600L. The 9610 is ideal when large sample volumes are available.

LPG SAMPLING STATION



Our LPG sampling station is designed to provide a low-pressure, gas-phase sample into the analyzer's injection system. The LPG Sampling Station provides an electrically-heated pressure-reducing regulator with an adjustable set point. The regulator can also be operated without heat. LPG Sampling capability is available as a built-in option with our SuperC AMF.

