

Syft ContainerSure

The ultimate instrument for trace detection of toxic gases in shipping containers

Key Benefits

Comprehensive, integrated trace fumigant and toxic industrial chemical (TIC) detection solution

Instantaneous broad-spectrum identification and quantitation of diverse toxic chemicals

Real-time on-site analysis with laboratory-grade results

Ease of operation with push-button simplicity and safe/unsafe answers

Designed and engineered for use in industrial environments

Detection of trace residues on surfaces using the swab desorber accessory



Specifications

ANALYSIS CAPABILITY

- Ideally suited to direct analysis of air for toxic compounds, such as fumigants
- Integrated library of toxic volatile organic compounds (VOCs) and inorganic gases for a tailored detection solution
- Real-time quantitative analysis
- Simultaneous analysis of chemically diverse compounds, including formaldehyde, hydrogen cyanide, methyl bromide and phosphine
- Adjustable safety and reporting thresholds

PERFORMANCE

- Start-up time: <10 minutes
- Standard selectable reagent ions: H_3O^+ , NO^+ , O_2^+
- Optional sulfuryl fluoride detection using negative reagent ion source
- Reagent ion switch time: 10 ms
- Mass resolution: Unit mass resolution throughout the mass range
- Response time: <100 ms
- Sensitivity: Up to 200 cps / ppbv
- Accuracy: Better than +/- 20% in ppbv range
- Linearity range: 6 orders of magnitude
- Dynamic range: 6 orders of magnitude

SAMPLE INTRODUCTION

- Sample bag
- Canister
- Whole air directly
- Multipoint sampling system (optional)
- Swabs (optional)
- Custom integration

SYSTEM AUTOMATION

- Stand-alone operation without additional PC
- Simple operation via touchscreen interface
- Fully automated daily validation cycle for data quality assurance
- Comprehensive on-board hardware and software to self-monitor performance
- Remote support via the internet

CONSUMABLES

- Carrier gas: helium (purity >99.995%)
- Reagent ion source: water
- Validation standard
- For sulfuryl fluoride detection option: nitric oxide (>99%) and sulfuryl fluoride calibration standard

DATA OUTPUT FORMATS

- Instantaneous safe/unsafe reporting on the instrument's touchscreen
- Live data streaming via TCP/IP Ethernet port
- Syft native XML format (used by LabSyft software)
- Generic spreadsheet format (CSV)
- Text format system information and raw data
- Customized integration

ENVIRONMENTAL CONDITIONS

- Ambient operating temperature: 10°C to 30°C (40°C with optional cooling module)
- Ambient operating humidity: 5 to 95%
- Storage extremes: -40°C to 65°C

INTERFACES

- TFT colour 8.4" LCD touch screen
- Online control for use in remote sites and rapid expert support
- 10/100 Ethernet (TCP/IP)
- Barcode scanner or keyboard (optional)

PHYSICAL PROPERTIES

- Height: 900 mm (35.4 in.)
- Width: 725 mm (28.5 in.)
- Depth: 875 mm (34.5 in.)
- Weight: 212 kg (466 lb)
- Motor vehicle mountable

OPERATING PARAMETERS

- Power: 200-264 VAC, 47-63 Hz, 2.0kVA
- Carrier gas consumption: Helium 360 sccm
- Standard sample inlet flow: 20 sccm

SAFETY CONFORMANCE

- IEC61010-1
- EN61010-1

ELECTROMAGNETIC CONFORMANCE

- EN61326
- CISPR 11/EN 55011: Group 1, Class A

OPTIONAL ACCESSORIES

- Sample collection case
- Sample bag flushing system
- Multipoint sampling system
- In-line dilution system
- Swab desorber
- Cooling module for warm climates (extends operation to 40°C)
- Motor vehicle mounting hardware