



SUGAR INDUSTRY **SOLUTIONS**

A range of quality products and services
to suit the needs of the sugar industry.





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Introducing our best-selling glassware and media bottle range for the Sugar Industry. We offer a wide range of high-quality, durable, temperature-resistant autoclavable bottles, perfect for laboratory use.

Media Bottles - Clear, Round with Blue Screw Cap

Our borosilicate media bottles have a GL45 pouring ring, blue screw cap, are autoclave safe and have excellent thermal performance.

We offer 50 ml, 100 ml, 250 ml, 500 ml, 1 l, 2 l, 5 l and 10 l media bottles.



Sugar Flask - A-Certified 100 ml

Our Type 2 Class A sugar flasks are particularly ideal for the analysis of sugars.

The single-mark flask is calibrated more accurately and used for measuring the polarisation of a sugar solution. These flasks have a high volume above the graduation mark to allow for adequate mixing of a solution.



Vacuum Filtration System

The vacuum filtration apparatus is one of our most popular items used in the Sugar Industry.

The assembly consists of a 300 ml 3.3 borosilicate glass funnel, a 47 mm fritted base that supports the filter disc, a 47 mm aluminium spring clamp, a silicone stopper to minimise the chance of liquid being drawn into the vacuum source, and 1 l 3.3 borosilicate glass filter flask.

Used for various applications including:

- Solvent purification
- Gravimetric analysis
- Radiochemical determinations



Popular, high-usage items for all laboratory and field applications. Durable range of certified containers and vessels of all shapes and sizes.

Petri Dishes

- Polystyrene
- Vented
- Easy stacking



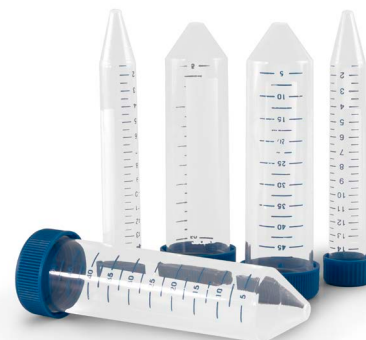
Gloves

- Latex or nitrile powder-free
- Ambidextrous
- Non-sterile



Centrifuge Tubes

- Polypropylene
- Graduated
- Sterile
- 15 and 50 ml
- Writing field
- 50 ml available in bulk, racked or skirted



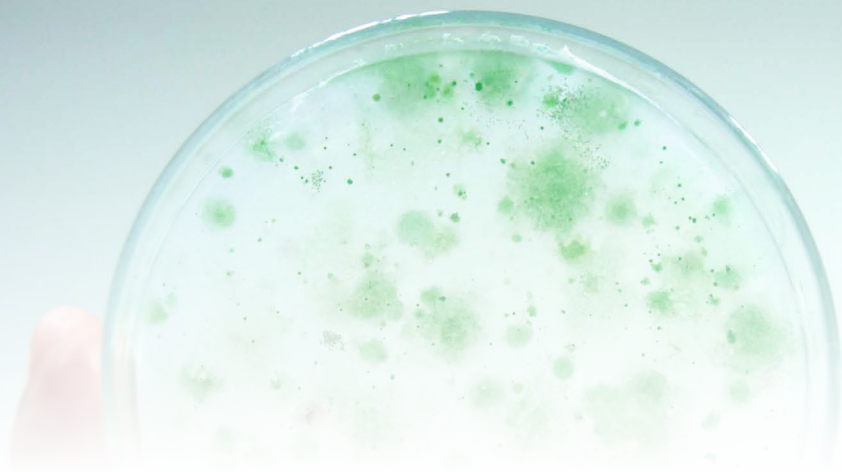
Sealing (Laboratory) Film

- Perfect for sealing any consumable
- Product protection from moisture and volume loss
- Ability to stretch to 200% of original size
- Provides secondary seal to secure lids, caps and stoppers
- 100 mm x 38 m roll



Weighing Boat

- Ideal for handling both liquids and solids
- Antistatic properties
- Contamination free
- Smooth pouring / flexibility



Easily detect, enumerate and differentiate between microorganisms present in your production plant or end product using our comprehensive range of culture media.

Sample-ready Petrifilm®

Streamline your microbiological testing with Petrifilm® plates. These ready-to-use solutions enhance efficiency by eliminating the need for traditional agar preparation, saving time and resources in your laboratory.

- Prepared plates with nutrients and indicators for precise culturing
- AOAC / AFNOR validated for trusted performance

Relevance within the Sugar Industry:

- Yeast and mould
- Aerobic count
- E. coli and coliform



ICUMSA Method Compliant Dehydrated Culture Media

- Agar no. 4 Plant Tissue Culture Grade
- Potato dextrose agar
- Nutrient agar
- Xylose Kysine Deoxycholate (XLD) Agar
- Triple Sugar Iron Agar
- MKTTn Broth (Muller Kauffmann)



FILTRATION

Whether you need to clarify samples, retain suspended solids, or prepare solutions for analysis, we have a solution for you.



We offer a complete range of filtration products from routine POL analysis to membrane and glass fibre filtration, which deliver reliable, reproducible results.



Glass Fibres

Designed to deliver exceptional clarity and purity. Ahlstrom glass fibre filters efficiently remove impurities while maintaining optimal flow rates.

3W Sugar Filter Paper

Developed specifically for the sugar industry, our 3W filter paper provides excellent filtration performance for POL analysis and other routine quality control procedures.



Membrane Filters

Membrane filters provide precise particle retention for filtration, recovery, and analytical applications. Available in a range of membrane materials and pore sizes, they deliver consistent performance for vacuum filtration and microbiological testing.



Syringe Filters

Single-use syringe filters provide fast and convenient sample clarification by removing particulates before instrumental analysis. Available in multiple membrane materials and pore sizes, they help protect analytical instruments while improving sample quality.

The product images shown are for illustration purposes only and may not be an exact representation of the product.

E&OE



Bio-Rad Sugar Columns

Select from our range of chromatography columns, designed for the separation and purification of carbohydrates in the sugar industry. The table below highlights the available columns and their recommended applications.



NAME	DESCRIPTION	APPLICATION(S)	SPECIFICATIONS	COLUMN SIZE
Aminex HPX-42C Column	Column is optimised for analysis of mono- and disaccharides in starch hydrolysates. It also provides excellent resolution of oligosaccharides as large as D-10.	Food & beverage quality control, fermentation monitoring, biological fluids analysis	4% cross linkage, resin calcium ionic form, pH range 5 - 9	300 x 7.8 mm
Aminex HPX-42A Column	This column provides fast, high-resolution oligosaccharide analysis. It separates oligosaccharides to D-11 in approximately 25 minutes.	Oligosaccharide profiling, starch and corn syrup analysis, brewing worts and fermentation processes	Silver form, 4% cross linkage, pH range 6 - 8	300 x 7.8 mm
Fermentation Monitoring Column	Analysis of carbohydrates in solution with carboxylic acids, volatile fatty acids, short-chain fatty acids, alcohols, ketones, and neutral metabolites.	Brewing and winemaking, biofuels production, biopharmaceutical / industrial fermentation	Hydrogen form, 9 µm, 8% cross linkage, pH range 1 - 3	150 x 7.8 mm
Fast Carbohydrate Analysis Column	Tailored for extremely fast separations of specific carbohydrates in samples where only certain components are of interest. It is optimised for 5-minute analyses of sucrose, glucose, galactose, and fructose.	Quantifying simple sugars in fruit juices, sodas, syrups, and honey, monitoring carbohydrate content in plant extracts to evaluate crop health and sugar yields, fermentation, dairy product analysis	8% cross linkage, lead form, pH range 5 - 9	100 x 7.8 mm

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INSTRUMENTATION

Tried-and-tested instrumentation solutions tailored to meet the stringent quality requirements of the sugar industry.



FIELD TECHNOLOGIES

Field technologies for Sugarcane Research, Precision Irrigation and Crop Monitoring

The sugar industry is continually challenged to improve productivity while reducing water use and adapting to changing environmental conditions. From irrigation scheduling and soil monitoring to crop physiology and plant stress detection, Lasec® provides a comprehensive portfolio of research-grade technologies.

Our solutions support sugar research institutes, universities, commercial growers and agronomists by delivering accurate data for informed decision-making, improved crop performance and sustainable sugar production.

ENVIRONMENTAL MONITORING



Clean-Trace® Hygiene Monitoring System

These tools offer an efficient, real-time solution for monitoring cleanliness and detecting contamination on surfaces and in rinse water.

- Accurately detects ATP on surfaces and in water to assess cleanliness
- Delivers rapid results for quick decision-making
- Durable and robust – ideal for manufacturing environments
- Provides reliable results with minimal training
- Seamlessly integrates into HACCP programmes for immediate corrective action

Weather Monitoring Systems

Weather stations integrate sensors for rainfall, solar radiation, wind speed and direction, air temperature and relative humidity to provide complete environmental monitoring.

Applications:

- Weather monitoring
- Evapotranspiration
- Crop modelling
- Climate research
- Environmental monitoring

Relevance within the Sugar Industry:

Environmental conditions directly influence sugarcane growth, disease pressure and irrigation demand. Continuous weather monitoring supports irrigation scheduling, crop modelling and yield forecasting while providing valuable data for long-term research.



SOIL AND IRRIGATION SOLUTIONS

WET150 Soil Moisture, Conductivity & Temperature Sensor

The WET150 simultaneously measures soil moisture, electrical conductivity (EC) and temperature, providing a complete assessment of root zone conditions. Built with robust SDI-12 communication and research-grade accuracy, it is suitable for both long-term field monitoring and portable measurements across a wide range of soils and growing media.

Applications:

- Precision irrigation
- Fertigation management
- Soil salinity monitoring
- Crop research and phenotyping
- Root zone monitoring
- Automated irrigation systems
- Long-term environmental monitoring

Relevance within the Sugar Industry:

Sugarcane is a high water-demand crop, making efficient irrigation critical to maximising yield and sugar content. The WET150 enables growers and researchers to optimise irrigation scheduling, monitor soil salinity, improve nutrient application and evaluate irrigation strategies across different varieties and production environments.



PR2 Soil Moisture Profile Probe

The PR2 Profile Probe measures volumetric soil moisture at multiple depths throughout the soil profile using Delta-T's patented sensing technology. Available in 40 cm and 100 cm configurations, it provides highly accurate root zone moisture measurements with minimal sensitivity to salinity and temperature.

Applications:

- Soil water profiling
- Irrigation scheduling
- Hydrology
- Crop research
- Precision agriculture
- Forestry

Relevance within the Sugar Industry:

Sugarcane develops a deep rooting system, making surface moisture measurements insufficient for irrigation decisions. The PR2 enables researchers and growers to monitor water availability throughout the root zone, improving irrigation timing, reducing water losses and supporting sustainable water management.

GP2 Data Logger

The GP2 is a powerful SDI-12 enabled data logger designed for reliable environmental monitoring. Supporting multiple sensors, it provides flexible data collection for irrigation research, crop monitoring and automated control systems.

Applications:

- Soil moisture monitoring
- Weather stations
- Irrigation automation
- Environmental monitoring
- Research trials
- Remote telemetry

Relevance within the Sugar Industry:

The GP2 acts as the central monitoring platform for irrigation and environmental data, enabling continuous measurement of soil moisture, weather conditions and crop environments across research plots and commercial plantations. It provides the data needed to improve irrigation efficiency and support precision agriculture.



PLANT PHYSIOLOGY AND CROP RESEARCH

Understanding how sugarcane responds to water availability, temperature, nutrients and environmental stress is essential for developing resilient, high-yielding cultivars. We offer advanced plant physiology systems trusted by leading agricultural research organisations worldwide.

LI-6800 Portable Photosynthesis System

The LI-6800 is the industry-leading portable photosynthesis system, capable of simultaneously measuring photosynthesis, transpiration, stomatal conductance and chlorophyll fluorescence under precisely controlled environmental conditions. Its modular design supports advanced physiological research across a wide range of plant species.

Applications:

- Photosynthesis research
- Plant physiology
- Drought studies
- Nutrient response
- Climate change research
- Plant breeding
- Water-use efficiency

Relevance within the Sugar Industry:

The LI-6800 enables sugar researchers to understand how different sugarcane varieties respond to drought, heat, fertilisation and irrigation strategies. These measurements are critical for breeding programmes, improving water-use efficiency and selecting cultivars capable of maintaining productivity under changing climatic conditions.



Chlorophyll Fluorometer

The portable chlorophyll fluorometer provides rapid, non-destructive assessment of photosynthetic efficiency and plant stress. Measurements can be performed directly in the field, enabling immediate evaluation of crop health.

Applications:

- Plant stress detection
- Nutrient deficiency studies
- Herbicide evaluation
- Disease monitoring
- Crop health assessment

Relevance within the Sugar Industry:

Early detection of stress enables timely management interventions before visible symptoms appear. The PlantPen helps researchers and agronomists assess the effects of drought, nutrient deficiencies and disease on sugarcane performance, improving crop management and reducing yield losses.

SunScan Canopy Analysis System

The SunScan canopy analysis system provides rapid, non-destructive measurements of Leaf Area Index (LAI), canopy interception and canopy architecture. It enables accurate assessment of crop development without damaging the crop.

Applications:

- Canopy analysis
- Leaf Area Index (LAI)
- Biomass estimation
- Crop growth monitoring
- Light interception studies

Relevance within the Sugar Industry:

Canopy development is closely linked to biomass production and final cane yield. SunScan enables researchers to monitor crop growth, compare varieties and evaluate management practices by measuring canopy structure and light interception throughout the growing season.



WEIGHING SOLUTIONS

PROCESS ZONE	EQUIPMENT	KEY SPECIFICATION	SUGAR INDUSTRY SOLUTION
The Sugar Lab (QC)	MA X7.A Moisture Analyser	Max: 50 - 210 g Readability: 0.1 - 1 mg Temp max: 160 - 250 °C	Brix & Dry Mass: Monitors syrup thickness. Mild Drying Profile: Heats sugar gently to prevent caramelisation and burning.
	PS X7 Precision Balances	Max: 200 - 10100 g Readability: 1 - 10 mg	Bulk Sampling: Weighs larger raw cane / beet composite samples before juice extraction. Internal Adjustment: Guarantees accuracy despite ambient temperature fluctuations in the lab.
	AS X7 Analytical Balances	Max: 60 - 520 g Readability: 0.01 - 0.1 mg	Reagent Preparation: Weighs exact samples for chemical testing. Internal Adjustment: Self-calibrates against hot lab temperatures.
Production and Processing (Factory Floor)	HRP EX High-Capacity Platform Scales	Max: 150 - 3000 kg Readability: 1 - 10 g	ATEX Approved: Safe to operate in highly explosive dry sugar dust environments. Raw Intake: Weighs incoming cane / beet juice yields.
	HY10 Stainless Steel Waterproof Scales	Max: 3 - 300 kg Readability: 0.1 - 10 g	IP68 / 69K Protection: Withstands sticky syrup spills and high-pressure hot water washdowns. PLC Integration: Connects directly via Modbus / Profibus to factory automation systems.



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SAMPLE PREPARATION AND ANALYSIS



Electromagnetic Sieve Shaker and Sieves

A complete particle size analysis solution comprising an electromagnetic sieve shaker and certified stainless steel test sieves.

Applications:

Designed to deliver accurate, repeatable, and standardised particle size distribution measurements for laboratory quality control, grading, process monitoring, and research.

Relevance within the Sugar Industry:

Reliable, high-throughput method for determining sugar crystal size distribution for quality control during sugar production. Aids in the classification of sugar grades, monitoring of crystallisation processes, verification of product specifications, and batch consistency.

Overhead Stirrers

Robust stirring solutions for low-to-high-viscosity applications.

- Suitable for laboratory and industrial use
- Adjustable speeds up to 2,000 rpm
- Handles sample volumes up to 200 l
- Suitable for low, medium, and high viscosity materials
- Overload- and overheat-protection



Rotary Evaporator

Solvent evaporation systems for efficient distillation and recovery.

- Counterbalanced lift with integrated vacuum release
- Modular glassware with large cooling surface (up to 1500 cm²)
- Multiple condenser configurations available
- Ergonomic safety-focused design
- Patented volume-controlled distillation and boiling-point detection
- Wide range of glassware options for different solvents
- Fully integratable with baths, chillers, pumps, and controllers



Viscometers and Rheometers

Systems for viscosity and rheological analysis across a wide range of samples.

- Modular design with guided user interface
- Suitable for low-viscosity liquids to stiff pastes
- Standalone or software-controlled operation
- Wide range of spindles, stands, and accessories
- Optional 21 CFR Part 11 compliance



Grinders and Mills

These units produce the required sugar particle size for consistent product quality and specification compliance.

- Integrated variable speed control (50 - 25 000 rpm) with LED display for speed indication and status messages
- Integrated heating, overload and blockage protection
- Compact, portable design allowing for fast, safe and reliable results
- Hardened stainless steel grinding attachments for crushing soft, hard or fibrous / brittle material and dry or wet samples
- Sieves in different mesh sizes from 0.2 mm – 6 mm
- A variety of sizes, models and accessories available to suit any laboratory's needs

Spectrophotometer

Combine the convenience of water testing photometers with the versatility of a high-end spectrophotometer. The XD Series of spectrophotometers are the perfect addition to QC laboratories focused on both water quality and product colour and purity testing.

Specifications:

- Wavelength range: 198 - 1100 nm
- Modes for absorbance (Abs), transmission (%T), and concentration testing
- Includes over 160 preprogrammed methods for water quality analysis, including methods for COD
- Versatile sample chamber that accommodates cuvettes up to 50 mm long



Refractometer

The J57 pour-through refractometer with Peltier temperature control has been specifically designed for measuring cane or beet juice in a sugar mill. This design has two important benefits: cleaning becomes part of the sample loading process and measurement time is reduced as one sample is poured in after another, making the design attractive for seasonal operators. The funnel design forces improved sample flushing by increasing the number of sample aliquots and reducing spillage.

Measurement Range:

Accuracy:

Temperature Control:

1.32 - 1.53 RI: 0 - 100 Brix

0.00002 RI / ± 0.01 Brix

Temperature control: 10 °C to 65 °C

Cooling fan included for high ambient temperature environments above 40 °C

Suitable for Sample Analysis in:

- Cane sugar milling and refining
- Invert sugar
- Confectionary sugar
- Beet sugar milling and refining
- Liquid sugar
- Brown sugar

Vacuum Pumps

- Single-stage diaphragm pump with up to 70 mbar ultimate vacuum
- Chemical resistance and superior vapour tolerance for filtration of samples containing solvents



Saccharimeter



The Autopol 880 provides 0.01 °Z repeatability and accuracy, time-proven measurement technology and the critical features necessary for today's sugar analysis. The most important feature of the Autopol 880 is its ability to measure at two wavelengths: 589 nm or 880 nm (in the near-infrared - NIR). Select 589 nm for conventional analysis using chemicals or lead clarifiers, or select 880 nm, which permits measurements of filtered, non-lead clarified juices. The Autopol 880 also includes dilution and cell length correction features as well as automatic calibration using a quartz control plate.

Measurement Range:

±259 °Z, ±89.9 ° Arc

Accuracy:

0.01 °Z

Probe:

Built-in temperature probe (no need for an external waterbath)

Wavelengths:

Standard - 589 nm, 880 nm

Suitable for Sample Analysis in:

- Cane sugar milling and refining
- Beet sugar milling and refining
- Invert sugar
- Liquid sugar
- Confectionary sugar
- Brown sugar

Chillers

Specifications:

- -25 °C to 100 °C
- Simple 3-button operation
- Large LED display
- Integrated timer function
- Variable flow rates
- Acoustic and optical alarms
- Can be used as a stand-alone waterbath or for cooling external equipment

RA 8 Cooling Thermostat

- 7.5 l bath volume
- Work area cover included
- 225 W cooling capacity at 20 °C

RA 24 Cooling Thermostat

- Large 22 l water bath
- Large opening (350 x 277 mm)
- Work area cover included
- 425 W cooling capacity at 20 °C



Photometers

The multiparameter MD600 photometer features over 100 different test methods for water analysis. Its user-friendly and compact design ensures that it's the ideal tool for on-site boiler water testing as well as field applications.

Specifications:

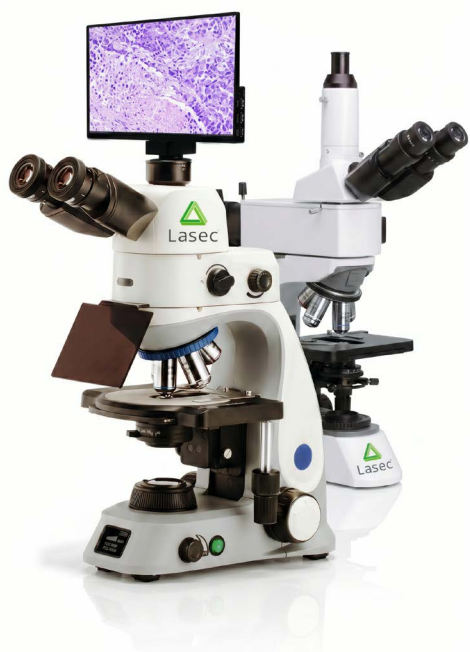
- Pre-programmed with over 100 methods, including methods for phosphates
- Supplied in robust carry case with accessories
- Reagents are not included (offered separately)



Neogen Molecular Detection System

Save time and labour costs with ready-to-use reagents, a single protocol for all pathogens and same- or next-day results.

- Simplified workflow with only 2 transfer steps
- Up to 96 samples in each run
- LAMP technology provides more control at each step
- Third-party validations by AOAC®, AFNOR, FDA and USDA



Microscopes

Digital microscopes are widely used to examine sugar crystal size, shape, uniformity, and surface characteristics. They help identify broken crystals, fine particles, agglomerates, and foreign contaminants while providing clear visual records for quality assurance and process optimisation.

Applications:

- Sugar crystal size analysis
- Sugar crystal shape and morphology evaluation
- Crystal growth monitoring during crystallisation
- Detection of broken crystals and fine particles
- Foreign particle and contamination inspection
- Sugar quality inspection
- Production monitoring
- QC reporting with captured images

Water Purification Systems

Avidity Duo II.I water purification system is a dual-channel laboratory water purification system that produces high-purity Type II and Type I (ultrapure) water from potable water using technologies such as reverse osmosis, deionisation, UV treatment, ultrafiltration, and final filtration.

- Provides a reliable supply of high-purity water for quality control and analytical laboratories in sugar mills and refineries, ensuring accurate, repeatable, and contamination-free test results.
- **Type II water:** Used for routine laboratory procedures in sugar quality control laboratories, including reagent preparation, glassware rinsing and supplying equipment requiring purified water.
- **Type I water:** Essential for high-precision analyses such as trace metal testing, chromatography, and other analytical methods used to monitor sugar purity, contaminants, and product quality.



pH and Conductivity Meters

The GLP PC8 multimeter performs both pH and conductivity measurements. Additional test parameters include TDS, ORP (mV) and salinity measurement modes.

Specifications:

- pH range: -2 to 16 pH
- Conductivity range: 0 to 200 mS
- Temperature range: -10 to 100 °C
- GLP

* Portable options are available



Solutions designed to safely store hazardous chemicals and flammable substances in laboratory and industrial environments. These systems help prevent accidents, ensure compliance with regulatory standards, and protect personnel and property.

Acid and Alkali Storage Cabinets

Designed for the safe storage of corrosive substances used in laboratory analysis, mineral processing, and cleaning applications.

- Corrosion-resistant inner lining and fittings
- Non-metallic hinges and seals
- Under-bench or tall cabinet formats
- Separate compartments for incompatible acids and alkalis



Flammable Storage Cabinets (Type 90 – EN 14470-1 Certified)

Provides 90-minute fire protection for the safe storage of flammable liquids used throughout the sugar manufacturing process, helping protect personnel, equipment, and production facilities.

Suitable for the safe storage of solvents, alcohols, reagents, cleaning chemicals, extraction solvents, flammable standards, and other flammable liquids commonly used in analytical, research, quality control, microbiology, and industrial laboratories.

- 90-minute fire resistance (EN 14470-1 Certified)
- Automatic self-closing doors in the event of fire
- Ventilation-ready design for safe vapour extraction
- Integrated spill containment sump
- Durable, corrosion- and chemical-resistant construction
- Ideal for sugar mills, refineries, ethanol production plants, maintenance workshops, laboratories, and chemical storage areas
- Supports compliance with occupational health, fire safety, and hazardous chemical storage requirements

Combination Chemical Storage Cabinets

Engineered for the simultaneous safe storage of flammable and aggressive chemicals in separate, fire-resistant compartments. Safely store flammables, acids, bases, corrosives, and toxic chemicals.

- 90-minute fire resistance (EN 14470-1)
- Integrated, corrosion-resistant, metal-free ventilation ducts suitable for exhaust connection (e.g., DN 75)
- Lockable doors with cylinder lock and status indicator to prevent unauthorised use
- Door locks in the open position for convenient access
- Compatible with fume hoods, with optional castors available for mobility



Lithium-Ion Battery Storage Cabinets

Provides safe storage and charging of lithium-ion batteries used in battery-powered equipment, tools, and vehicles.

- 90-minute fire protection (EN 14470-1 and EN 14470-2)
- Integrated fire suppression system
- Thermal monitoring and alarms
- Active ventilation and smoke detection
- Lockable, ventilated charging compartments

Acid Fume Scrubbers

The ENVIRO range is built for the safe removal and neutralisation of acid fumes extracted from laboratory fume cupboards, supporting clean air standards.

- Available for single or multiple fume cupboard extraction
- Polypropylene construction for excellent resistance to corrosive chemicals
- Removes 98% + of acid contaminants
- Automated smart dosing for consistent neutralisation
- Suitable for all commonly used laboratory acids, helping prevent harmful emissions within and around the lab



Fume Hoods

Designed for routine chemical handling and sample preparation, the THRU-FLOW LITE range delivers dependable containment and airflow control for demanding mining laboratory environments.

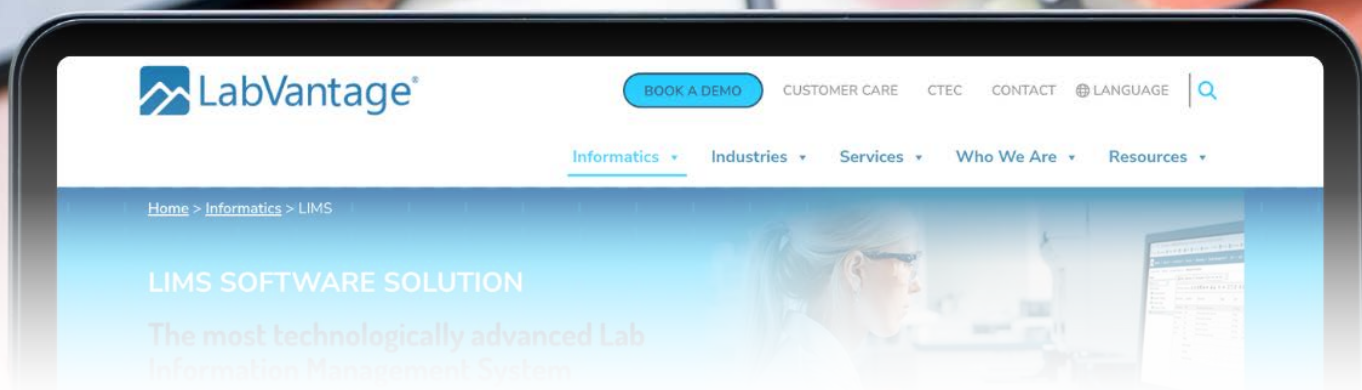
- Constructed from DiBt-approved, chemical-resistant polypropylene
- Lightweight design suited to high-use laboratory settings
- Manually operated cast polycarbonate or tempered glass sash
- High-performance two-part baffle plate for consistent airflow
- Built-in airflow monitor for user confidence
- Manually adjustable outlet damper
- IP68 bright white LED lighting
- Two IP66 240 VAC single-phase plug sockets
- Integrated control panel
- Durable phenolic resin work surface



HPLC Safety Systems

Engineered to support safe solvent handling and maintain reagent integrity, HPLC Safety Systems provide effective vapour control and secure solvent management when determining sugar consumption, ethanol production and the organic acids developed.

- Integrated air valve for safe pressure equalisation and solvent vapour containment
- Built-in filtration prevents dust and airborne contamination of eluents
- Secure tubing and capillary fixation to prevent slipping and air inclusions
- Freely rotating screw cap enables quick, clean bottle changes without hose tangling
- Audit-compliant design supporting quality, safety and inspection requirements



LabVantage® LIMS designed for the Sugar Industry

A powerful, web-based Laboratory Information Management System designed to streamline testing, quality control, and operational visibility across sugar industry laboratories. From cane reception and process monitoring to refined sugar release and water testing, LabVantage® helps sugar producers strengthen traceability, improve turnaround times, and support consistent product quality in a scalable and secure digital platform.

A Complete Informatics Ecosystem

- Sample and batch management
- Instrument integration (SDMS) and automated data capture
- Quality control workflows and specifications management
- Environmental and water testing data management
- Inventory and reagent traceability
- Equipment calibration and maintenance scheduling
- Dashboards, KPIs, and trend reporting
- Secure reporting and certificate generation
- Web portal access for internal and external stakeholders
- Deployable on-premise or as a fully managed SaaS solution



Pre-configured to Support Sugar Testing Workflows

LabVantage® can be configured to support the routine and high-volume testing environments common in sugar milling and refining laboratories. It provides a single digital platform for managing analytical data, laboratory workflows, specifications, approvals, and reporting across raw materials, in-process samples, final product testing, utilities, and environmental monitoring.

Key Benefits for Sugar Industry Laboratories

- **End-to-end traceability** track samples from cane intake, juice analysis, process streams, final sugar, and associated water samples through approved results and release documentation.
- **Improved operational efficiency** reduces manual transcription, standardise workflows, automate calculations and approvals, and improves turnaround time in busy seasonal production environments.
- **Integrated quality control** manages routine quality checks, specifications, out-of-specification investigations, trend analysis, and result review in one platform.
- **Instrument and data connectivity** connect instruments and capture results automatically to reduce errors and improve data integrity across saccharimetry, refractometry, spectrophotometry, pH, conductivity, and related analyses.
- **Real-time visibility** provides production, laboratory, and quality teams with current sample status, dashboards, KPIs, and reporting for faster decision-making.
- **Scalable digital transformation** supports single-site or multi-site sugar operations with a flexible platform that can expand into ELN, LES, SDMS, analytics, and broader enterprise integration over time.



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