



Lasec® Lab Sustainability Portfolio

Empowering Sustainable Science Across Africa

Our Commitment to Sustainability

Sustainability is more than a goal, it is a responsibility.

Lasec® is committed to reducing operational impact and supporting laboratories across Africa in meeting their Environmental, Social, and Governance (ESG) goals.

From renewable energy at our headquarters to sustainable supplier partnerships, we're helping pave the way for **greener lab** practices.

Making a change does not need to be daunting, start with one area, whether it is plastic, water or energy. Small steps by every lab can lead to big impact.

Powering Progress with Less

Energy Efficiency in the Lab

Labs are among the most energy-intensive environments, with many instruments running around the clock. Improving efficiency helps cut carbon emissions without compromising performance.

FEATURED SOLUTIONS:



Haier Biomedical Intelligent Protection of Life Science

Energy Star-certified ULT freezers and fridges with natural refrigerants. Inverter compressors and green insulation reduce energy use by up to **50%**.



memmert

Peltier-cooled incubators and climate chambers deliver up to **90% energy savings**.



RADWAG®

Low-power precision balances with internal rechargeable batteries – operate without mains power.



Tip:

Defrost your ULT freezer regularly as frost buildup can increase energy use significantly

For more information, please contact your Lasec® Sales Representative

+27 21 531 7504 sales@lasec.com www.lasec.com

From Single-Use to Sustainable

Reducing Plastic Waste in the Lab

Plastic waste from consumables is a major concern in laboratories. Moving to refill systems, reusable materials, and recyclable packaging is a practical way to reduce environmental impact without disrupting workflows.

FEATURED SOLUTIONS:



Extensive list of ACT® labelled products including tip refill systems that reduce plastic waste.



ACT® labelled conical tubes and pipettes with sustainable manufacturing and packaging practices.



Long-lasting, reusable glassware is an alternative to disposable plastic



Tip:

Small changes add up. Switching to refill systems and reusable labware or glassware can cut plastic waste by hundreds of kilograms per year.

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Every Drop Counts

Laboratories often underestimate their water usage from cooling systems to sterilisation. Investing in water-efficient solutions can preserve resources while maintaining optimal performance.

FEATURED SOLUTIONS:



Water purification system re-circulates any permeate not meeting quality specification to reduce waste water and features water savings standby mode.



Replace traditional tap water-cooled applications with recirculating water systems rather than sending it down the drain.



Glassware washers with ECO programs use reduced water volumes for sustainable cleaning.



Tip:

Autoclaves can be among the highest water consumers in the lab. Place units in standby mode when not in use and batch sterilise loads efficiently to minimise water waste.

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Green Chemistry for Sustainable Labs

Whether through reclaiming solvents, removing persistent contaminants like PFAS, or reformulating reagents with low-toxicity components, these innovations help labs align scientific integrity with environmental responsibility.

FEATURED SOLUTIONS:



High-efficiency solvent recyclers enabling up to 95% solvent recovery for reuse, minimise hazardous waste generation and procurement costs.



Water testing reagents formulated without boric acid, support safer lab practices and environmental compliance.



Pipette tips and other consumables made without per- and polyfluoroalkyl substances (PFAS) or heavy metal additives. This supports safer lab use, reduces risk of sample contamination, and improves downstream recyclability and disposal.



Tip:

Choose chemical reagents and consumables that avoid harmful environmental impact. Safer formulations and recovery systems reduce hazardous waste, protect lab staff, and lower disposal costs.

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Smarter Reagent Use for Greener Workflow

Reducing the volume of reagents used in each workflow is a practical way to lower a lab's environmental impact. Whether through nanolitre reaction volumes, pre-mixed formulations, or technology that eliminates redundant steps, these innovations conserve materials, reduce waste, and optimise cost efficiency, all while maintaining scientific accuracy.

FEATURED SOLUTIONS:



The Biomark X9 combines qPCR and NGS library preparation in a single system, streamlining workflows while conserving resources. Uses nanolitre volumes for reduced reagent, consumable and sample usage.



Instruments optimised for reduced reagent use. Bio-Rad's V3 stain free technology reduces the need for additional reagents used in western blot workflows.



Automated systems (mosquito® and dragonfly®) that use ultra-low volumes, minimise reagent waste and hazardous plastic disposal.



Tip:

Use technologies that reduce reaction volumes or consolidate steps to minimise reagent consumption. This not only lowers environmental impact but also extends your budget, especially in high-throughput labs.

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Sustainability-Driven Suppliers

Refer to our supplier listing for a full overview of brands, products, and their environmental features.

SUPPLIER	PRODUCT	ENVIRONMENTAL IMPACT
Ahlistrom	Filter paper	ISO 14001 certified
asecos	Chemical storage cabinets	ISO 14001 certified, EcoVadis-rated
Avidity Science®	Water purification systems	Water recovery, use of recyclable materials
BestScope	Microscopes	ISO 14001 certified
Bio-Rad	Life science research & clinical diagnostics	Reduced reagent use, eco-friendly packaging, SBTi climate goals
CBG Biotech	Solvent recycler	Waste reduction, recycling solvents for reuse with up to 95% recovery
Copan	Flocked swabs, sample collection & transport media	ISO 14001 certified
Don Whitley Scientific	Atmogen anaerobic jar gassing system	Reusable Catalyst - Promotes recycling, reduces waste and minimises palladium consumption
Eisco	Laboratory glassware	Solar-powered production (80% energy), 70% less plastic in packaging, foam safety packs that double as lab storage
Gilson	Liquid handling products	ISO 14001 certified
Giorgio Bormac	Ph meters, conductivity meters	Eco-packaged instruments, ISO-certified operations, SDG-aligned
Greiner Bio-One	Laboratory plasticware	ACT® labware, 100% green electricity, ≥99% recycled packaging, internal plastic reuse, zero-landfill and SBTi-aligned emissions goals
Haier Biomedical	Cold chain equipment, air protection and centrifuges	Hydrocarbon refrigerants with zero ozone/GWP, ENERGY STAR ULTs, fluorocarbon-free product line, solar-powered vaccine fridges solar-powered factory, ISO 14001 and carbon-neutral goals

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SUPPLIER	PRODUCT	ENVIRONMENTAL IMPACT
Labcon	Laboratory plasticware	ACT®-labelled, PFAS- and metal-free tips, refillable racks, tubes and eco-efficiency program
Lovibond®	Water testing	Green Chemistry boric-acid-free reagents
LAUDA	Waterstills and chillers	Natural-refrigerant chillers, 50%-energy savings, Ecodesign-compliant, speed-controlled compressors
Memmert	Incubators, climate chambers, ovens, sterilisers and waterbaths	Peltier-based, refrigerant-free incubators/climate chambers, up to 90% energy savings, energy efficiency recyclable stainless steel
Nuaire	Biological safety cabinets, ultra-low freezers, CO ₂ incubators	Energy Star certified products
RADWAG	Balances & scales	Energy-efficient, rechargeable-battery balances and scales
Romer Labs	Mycotoxin, allergen & gmo test kits	ISO 14001 certified, carbon-neutral goals across products
Sigma Laborzentrifugen	Centrifuges	CO ₂ refrigerants, ECO standby mode, EcoVadis-rated
Smeg	Glassware washers	ECO wash mode (lower water/energy), RoHS/REACH compliant
SPT Labtech	Automated liquid handling	Non-contact dispensing & miniaturization cut plastic & reagent use
Standard BioTools	PCR, qPCR and NGS library prep system	UN Global Compact alignment; EHS policy driving energy, water & waste efficiency
Tesaly	Waste treatment autoclave	60–80% volume & 50% weight reduction; 5x lower CO ₂ ; zero dioxins
VACUUBRAND	Vacuum pumps	ISO 14001 certified, recyclable packaging, VARIO® controls with up to 90% energy savings
Zealway	Autoclaves	Biological waste sterilisation program

Contact your Lasec® Sales Representative for more information

CAPE TOWN

52 Old Mill Road
Ndabeni
Cape Town
7405

JOHANNESBURG

48 Gazelle Crescent
Gazelle Place
Corporate Park South
Randjiespark
Midrand
1685

DURBAN

Unit 3, Windsor Court,
Ground Floor
AFS House, 4 Derby Place,
Derby Downs Westville
3629

PORT ELIZABETH

Unit 5.1, Building 3
Ascot Office Park
Block 7
Conyngham Street
Greenacres
6001

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