Labmex™
INNOVATIVE DESIGN FOR LABORATORY



EcoMex PP

Integrated Wet Scrubber Polypropylene (PP) Fume Cupboard

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Protecting Your Lab. Protecting our Environment.

The EcoMex™ series couples heavy-duty, 100% Polypropylene (PP) high-performance construction with a compact, integrated wet scrubber system. This space-saving all-in-one architecture neutralizes aggressive acidic fumes directly at the source, preventing toxic discharge before the cleaned air is exhausted from the facility. Featuring a compact standalone unit footprint designed for easy integration into standard rooms, it is the ideal choice for facilities without access to massive external scrubbing towers.

Design Engineering & Operating Principles

Eco-Neutralization Operating Principles

Traditional external scrubbers demand extensive, inefficient vertical ductwork. The EcoMex™ integrates the multi-stage neutralization process entirely within the fume hood structure. The top enclosure houses the scrubber, and the base cabinet provides the dedicated water tank space.

1. **CHAMBER CAPTURE**: Acidic vapors are collected directly inside the work area.
2. **SPIRAL MIST SPRAY**: High-angle atomising spiral nozzles distribute neutralizing solution.
3. **FLOATING SPHERE BED**: Dense bed of neutralising spheres maximizes surface contact area.
4. **UNIFIED BASE RECIRCULATION**: A dedicated white PP water tank occupies the lower cabinet. The recirculation pump is seamlessly positioned directly beside the white tank, ensuring a continuous loop Made from 100% Polypropylene (PP) for unparalleled chemical resistance, this system ensures minimum freshwater consumption and optimal chemical economy.

Technical Specification

1200mm EcoMex™ PP Integrated Scrubber Fume cupboard	• Description: 1200W / 1500W / 1800W x 900D × 2400H mm • Material: Polypropylene (PP) Body, Interior Lining, and Base Cabinet • Worktop: Pure Polypropylene (Standard) • Utilities Included: Remote Water, Gas Control, PP Drip Cup & 2 Twin 13A BS Sockets	LX-ECOX-1200-PP
1500mm EcoMex™ PP Integrated Scrubber Fume cupboard		LX-ECOX-1500-PP
1800mm EcoMex™ PP Integrated Scrubber Fume cupboard		LX-ECOX-1800-PP
Standard Manual Scrubber Package	• Manual Water Inlet/Drainage for Manual Chemical Dosing with Scrubber for Fume cupboard • Includes: PP Circulating Water Tank, Single Recirculation Sewage Pump, pH Monitoring Probe & Control Box	LX-ECOX-SCRB-MAN
Advanced Automatic Scrubber Package	• Automated Water Inlet/Drainage for Automated Chemical Dosing with Scrubber for Fume cupboard • Includes: PP Circulating Water Tank, Dual Recirculation Sewage Pumps (1-Duty / 1-Standby), Dedicated Drainage Pump, pH Monitoring Probe, Automated Chemical Dosing Pump, Chemical Storage Tank & Control Box.	LX-ECOX-SCRB-AUTO

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