

## GeneSys™ Scrubbers with Li-Ion Batteries

**LITHION**  
LITHIUM-ION BATTERY



## Verifying Lithium-Ion Battery Safety

At Betco, we prioritize safety in every product we bring to market. As we introduce lithium-ion battery technology into our GeneSys™ 20" and Mid-Size automatic scrubbers, we've taken deliberate and thorough steps to ensure the safety, reliability, and performance of these systems in even the most demanding environments.



## Safer Chemistry by Design

The lithium-ion batteries powering our equipment use lithium iron phosphate (LiFePO<sub>4</sub>) chemistry—one of the most stable and inherently safe battery types available. This chemistry is known for its:

- High thermal and chemical stability
- Resistance to thermal runaway
- Non-flammable, non-hazardous characteristics

*These properties make it an ideal choice for commercial floor care applications where both safety and durability are critical.*

## Multi-Layered Protection System

Each battery is equipped with a sophisticated Battery Management System (BMS) and multiple built-in protections to prevent hazardous conditions. These include:

- Overcharge protection
- Over-discharge protection
- Over-temperature protection
- Short-circuit protection

## Certified to the Highest Standards

Our battery systems comply with multiple global safety and performance standards, such as:

- UL 2580 for industrial battery safety
- UN 38.3 for safe handling and transportation
- IEC 62133 for rechargeable cell safety
- Compatibility with both Battery Council International (BCI) form factors for seamless integration and drop-in replacement

## Rigorous Internal Validation

In addition to vendor certifications, Betco conducted a range of internal evaluations to validate battery performance. These include:

- Run time validation testing (real-world machine use and lab-controlled discharge cycles)
- Opportunity charging simulations
- End-of-charge performance testing
- Charger compatibility and reliability testing
- Field operation testing to validate consistent long-term performance

## Recommendations for Users

To ensure safe and effective battery use, we also recommend:

- Smart chargers that regulate power and display fault conditions
- Clear safety labeling that complies with American National Standards Institute (ANSI) Z535 standards
- Using only approved chargers
- Avoiding overcharging or deep discharging
- Storing batteries in cool, dry locations away from flammable materials
- Recycling batteries through proper facilities
- Monitoring for damage, heat, or unusual behavior

## Responsible End-of-Life Disposal

As part of our commitment to sustainability and safety, we offer free end-of-life battery disposal through our battery supplier. This ensures that used batteries are handled, transported, and recycled properly in accordance with environmental and safety regulations—at no additional cost to you.

*By combining a vendor with a strong safety track record, a stable battery chemistry, and Betco's own rigorous testing, our lithium-ion floor scrubbers deliver the performance you expect—safely and reliably.*



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