



sweepers & scrubbers

LITHIUM BATTERY



LI-ION RANGE

RCM offers a wide selection of battery solutions and chargers. Our experts can work with you to assess your needs applications and help you find the right solutions for your application.

CHOOSE YOUR BATTERY ACCORDING TO:

- Heavy or light duty service
- Type of equipment
- Minimum runtime
- Battery swap facilities
- Charging time
- Charging point facilities (plugs, voltage and space available)

COMMON BATTERY TYPES

LI-ION

Li-ion is a relatively new battery technology commonly found in electronics and recently became available tool for cleaning equipment.

In a lithium ion battery cell, electrons move between a positive cathode and a negative anode separated by a membrane.

LEAD ACID

Lead acid batteries include cells with an electrolyte mixture, water and sulfuric acid.



DID YOU KNOW?

A Cleaning machine is constantly extracting energy from a battery – whether its accelerating, sweeping or scrubbing – so battery characteristics are different from those used on electric cars or forklift.

KEY FACTS

LI-ION



MAINTENANCE

- Sealed
- Maintenance free - no water filling required
- Performance data can be gathered from the Battery management System

LEAD ACID

- Risk of gas/acid leak
- Requires maintenance and topping up with water
- Maintenance can be expensive
- Poor maintenance can lead to added repair costs

KEY FACTS

LI-ION

LEAD ACID



CHARGING

- Allows intermittent top up charges during operator's break
 - Can provide enough power for 2 or 3 shifts
 - No dangerous gas emission so can be charged anywhere
 - Full capacity of battery can be used
 - No need for spare batteries
 - Fast charging
- Requires capacity check and each charge as to be up to full for optimum battery life
 - Handling requires Personal Protection Equipment
 - Requires designated ventilated area
 - Large and heavy to move



Li-ion = good for multi-shift operations and whenever large runtime is required

Lead acid = good for single shift operations, and low frequency cleaning services

LI-ION

LEAD ACID



BATTERY LIFE

**3000
CYCLES**

**1500
CYCLES**



Clean Li-ion batteries are ideal for sensitive environments such as food or packaging industries.

30% MORE EFFICIENT

Li-ion batteries are up to 30% more energy efficient than lead acid during charging.

= lower electricity costs + environmentally friendly

Comply with UN 38.3, ADR 3480, ADR 3481

AT A GLANCE

LI-ION		LEAD ACID	
PROS	CONS	PROS	CONS
<ul style="list-style-type: none"> ✓ Top up charging ✓ Greater efficiency ✓ Longer life span ✓ Larger runtime ✓ Greater capacity ✓ Less downtime ✓ No backup batteries inventory ✓ Lower running cost ✓ Small and lightweight 	<ul style="list-style-type: none"> ✗ Higher initial cost ✗ Larger AC draw, from power network ✗ Requires parking area and charging points 	<ul style="list-style-type: none"> ✓ Economically priced ✓ Simple technology ✓ Durable in light applications 	<ul style="list-style-type: none"> ✗ Shorter life cycles ✗ Slow recharge ✗ High maintenance ✗ Dangerous to handle ✗ Often requires spare batteries

RCM offers lead acid as standard, and a wide range of our products are compatible with li-ion, including:

SCRUBBERS-DRYER



BYTE



MEGA



GIGA-ICON



TERA

SWEEPERS



SLALOM-ATOM.3



SUPRA



BOXER-MILLE PLUS



DUEMILA



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