



Lithium-Ion Battery Technology

A smarter way to power worry-free cleaning.

Zero maintenance. Zero hassles. Maximum cleaning productivity.

Key Benefits



Zero maintenance



Long battery life



Simplified operations



Safer facilities



Maximized productivity

Spend more time cleaning. Spend zero time worrying.

Make sure your equipment is ready to go all day, every day with Tennant lithium-ion battery technology. Create a true zero-maintenance power source: no battery watering, no fuel-tank replacement and storage, and no engine maintenance. With Tennant lithium-ion batteries, your machines are always ready to go, your operators spend more time cleaning – and you spend zero time worrying.

Key Benefits



Zero Maintenance

No more battery watering. No more engine maintenance. No worries.



Long Battery Life

Tennant's lithium-ion battery has a life of 2,000+ charge cycles. This means fewer battery replacements.



Simplified Operations

No need to train or learn complicated charging processes because opportunity charging does not reduce battery life.



Safer Facilities

Improve indoor air quality and reduce the risk of accidents by eliminating exposure to flammable fuels and battery acid.



Maximized Productivity

Optimize equipment uptime by spending more time cleaning and less time dealing with your power source.

Tennant Li-Ion vs. LPG/Diesel/Gas Fuel

Reduce cost to clean — and enhance safety.

- Improved Uptime: Full-shift cleaning without fuel tank filling/charging
- Lower Costs: Zero engine maintenance, fuel costs, fuel storage costs, shop supply costs and significantly reduced training costs
- Enhanced Safety: Zero fuel emissions, no flammable fuels on-site and lower dBA sound levels
- Sustainable Cleaning: Eliminate reliance on non-renewable natural resources

Tennant Li-Ion vs. Lead-Acid Batteries

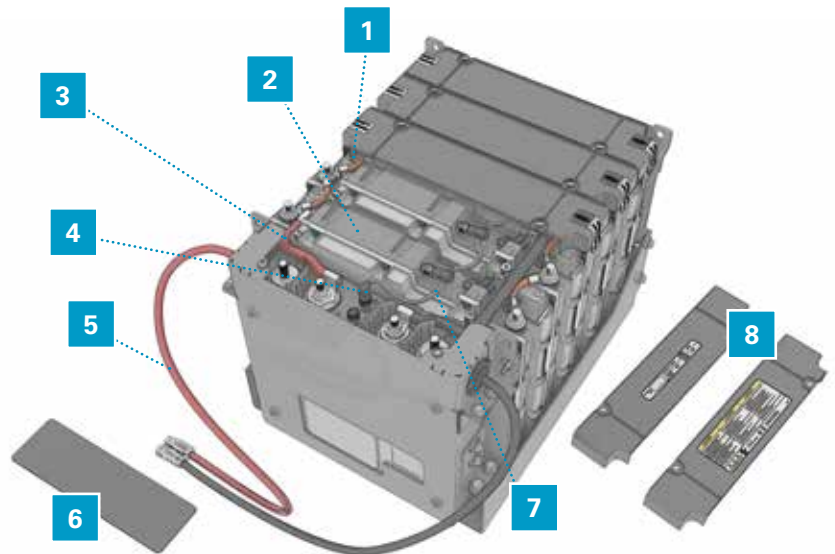
Maximize fleet performance — at a great value.

- Improved Uptime: Fast charging, longer runtimes and opportunity charging to minimize idle time
- Great Value: Eliminates all worries associated with traditional wet batteries
- Low Operating Costs: Fewer battery replacements, no battery watering, lower charging costs and minimal training required
- Enhanced Safety: No risk of encountering battery acid and no harmful gases produced during charging

Tennant Lithium-Ion Technology: A Custom-Integrated Solution

Tennant Lithium-ion batteries are designed and assembled for Tennant equipment. The battery's integration with the machine delivers several safety, efficiency and performance advantages over third-party offerings.

- 1. Battery Module Power Cable
- 2. Battery Modules
- 3. Battery Module to BMS Cable
- 4. Battery Management System (BMS)
- 5. Battery Pack Power Cables
- 6. Battery Management System Cover
- 7. Communications Cable
- 8. Battery Module Covers



Key Features

Leading Edge Lithium Technology

Lithium-ion battery technology provides **exceptional energy density for longer runtimes** than other battery types.

Fully Integrated Design

Unlike many lithium-ion batteries, each Tennant lithium-ion battery is fully integrated with the Tennant machine for **worry-free operations**. The machine and battery turn on/off with the machine's key switch, the battery discharge indicator is always visible, and the scrubbing function shuts down at 95% depth of discharge leaving enough power to get to a charging area.

Battery Management System (BMS)

An intelligent system provides continuous communication between battery and machine to **protect the user and equipment** from unsafe operating conditions.

5-Year Warranty & Tennant Support

A comprehensive 5-year warranty* backed by unmatched Tennant service support and expertise **provides peace-of-mind**.

*see warranty for full details

Proven in the Most Extreme Environments

Tennant's lithium-ion batteries are a proven power source in rigorous applications and environments. Extensive testing ensures these, as well as meeting UL and UN 38.3 standards for safety.

Lithium-Ion Availability Chart

Lithium-ion batteries are available on select Tennant equipment.

LITHIUM BATTERY SIZE		T16AMR
12.2 kWh	331 AH	✓



Leasing Programs Available

Tennant offers a range of flexible leasing options that bring your fleet the advantage of Tennant Lithium-Ion technology, while giving your organization the benefit of shifting steady, predictable payments into OpEx budgets.

Contact your Tennant sales representative to see how lithium-ion technology can help your operations.

Tennant—Reinvent how the world cleans

With a vision to become a global leader in sustainable cleaning innovation that empowers our customers to create a cleaner, safer and healthier world, Tennant creates solutions that are changing the way the world cleans.



We are where you are

Tennant has the industry's largest direct sales and service organization and a well-supported network of authorized distributors worldwide.



Solutions for your unique needs

Whatever your cleaning needs, Tennant offers a variety of high quality equipment to help you increase your cleaning productivity.



Buying, leasing, renting

We offer flexible options to get you the machines you need, however you need them.



TennantTrue®

Optimize equipment performance and protect your investment with TennantTrue® parts and service.

For a demonstration or additional information,
call **+1.800.553.8033** or email **info@tennantco.com**

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