



ELECTRIC ALL-TERRAIN LITTER VACUUM
WITH ENCLOSED CAB

LR50

All-season comfort. Proven electric performance.

The Madvac LR50 E is a compact, all-terrain litter vacuum designed for operators who need full-shift efficiency without sacrificing comfort. With a fully enclosed cab and ergonomic controls, it's built to take on complex urban cleaning challenges—rain or shine, all year round.



WHERE IT WORKS BEST

The LR50 is purpose-built for high-traffic public spaces and hard-to-access areas where cleanliness and operator comfort both matter. It excels in environments like sidewalks, bike lanes, curbsides, alleys, parkways, public parks, downtown cores, pedestrian zones, and commercial or institutional grounds.



WHAT SETS IT APART

Comfort-focused design, electric reliability.

Unlike most seasonal sweepers, the LR50 is built for year-round use. Its enclosed heated cab keeps operators comfortable, while the zero-emission electric drivetrain cuts up to 17 tons of CO₂ per year. With up to 9 hours of runtime, an ergonomic joystick-controlled vacuum arm, and a durable, low-maintenance build, it's ready for daily urban cleaning—no matter the season.

TECHNICAL SPECIFICATIONS

Drive

102V brushless DC motor
w/ 17:1 e-axle and shock-damping coupler.

Autonomy

Up to 9 hours

Vacuum rating

Up to 1800 CFM

Litter capacity

66 gal. (250 L)

Maximum speed

12 mph (20 km/h)

Maximum gradeability

20%

Battery

Dual 14.4kWh -102V batteries
Long-lasting, high-performance Li-NMC technology.

KEY FEATURES AND BENEFITS

▶ EFFICIENT ELECTRIC POWER

Powered by 2 high-performance Li-NMC batteries, the LR50 delivers up to 9 hours of runtime. Its unique 102V powerpack features 3× better energy density than traditional battery systems—maximizing efficiency in a compact, zero-emission platform.

▶ VERSATILE DEBRIS PICKUP

Handles dry, damp, or wet litter without clogging or slowdowns. With up to 6× the productivity of manual collection and an optional 48 in. vacuum head, the LR50 helps you cover more ground—faster.

▶ BUILT TO LAST

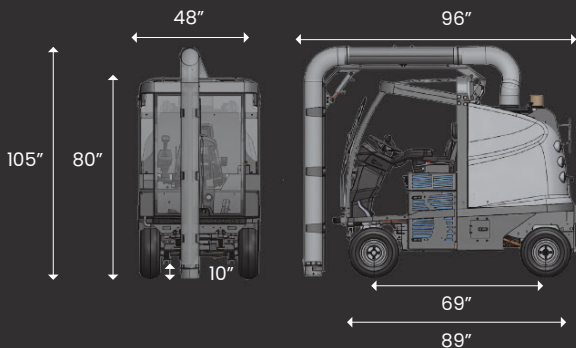
10–12 Year Lifespan

Most machines don't make it past a few seasons. Madvac ones are built for the long haul—durable, reliable, and easy to maintain.

▶ OPERATOR COMFORT, BUILT IN

From heated seat to full visibility, the enclosed cab keeps operators comfortable year-round. Train fast, deploy faster—with intuitive controls and no CDL required.

DIMENSIONS



CONTACT US

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BUILT YOUR WAY

Tailor your machine to your workday. From added comfort and safety to increased flexibility, our optional features let you adapt your equipment to the demands of your environment—so every shift runs smarter:

48 IN. (1219 MM) VACUUM HEAD

Covers more ground, faster.

RETRACTABLE WANDER HOSE

Extended reach for hard-to-access litter.

LITTER COLLECTOR BAGS OR BAGLESS DEBRIS SYSTEM (KEVLAR BIN)

Choose your preferred waste collection setup.

WATER MIST SYSTEM

Enhances dust control under dry conditions.

HEATED SEAT

Extra comfort for cold-weather operations.

TIRE FLATPROOFING

Reduces downtime caused by punctures.