



Madvac[®] LR50e – 100% electric all-terrain litter vacuum

Specifically designed to remove litter on or off road and meet your zero-emission environmental objectives.

Vacuum litter in locations that have various obstacles and surface types:

- Area: streets, parks, sidewalks, bike and pedestrian lanes, parking lots, curb side, alleys, public markets, alongside buildings, pathways, etc.
- Obstacles: bus shelters, lamp posts, benches, fire hydrants, etc.
- Paving type: grass, asphalt, concrete, cobblestone pavement.

LR50e is the ultimate compact litter vacuum for:

- Cities & municipalities
- Transit authorities
- Distribution centers
- Shopping malls
- Educational and sports facilities
- Industrial areas
- Airports
- Casinos
- Amusement parks
- Seaports
- Military
- **Safe & easy to use** – Does not require a CDL. Simple ergonomic controls, all-round visibility, safe to drive in crowded areas - anyone can operate this machine.

Built To Suit Your Needs

Configure the LR50e according to your specific litter control application(s)

- 48" (1.2 m) wide vacuum head for effortless litter collection (option). Clean 105,00 sq.ft. (14,000 m²) / per hr;
- 15 ft. (4.5 m) wander hose to remove litter in hard-to reach areas (option);
- Complete street-legal lighting / signaling package (option);
- Cab enclosure with heater keeps operator dry and comfortable (option).



The Madvac Advantage

LR50e is the only 100% electric compact litter vacuum built and serviced in North America

- Specifically designed for North American working conditions;
- 10 to 12-year lifespan;
- Dealers across North America are the best outdoor cleaning experts;
- Parts shipped within 48 hours;
- Sourcewell (formerly NJPA) awarded contract vendor (#122017-EXP).



Contract # 122017-EXP

LR50e Characteristics

The LR50e is powered using a Lithium-Ion high-energy battery pack. When fully-charged, offers approximately 6 hr autonomy. Batteries are charged using a standard 120/240 volt wall socket.



Battery pack located underneath operator seat



Master control board



On-board charger with cables (2) for wall socket

Madvac LR50e Highlights

Performance

- Collect litter up to 6 times faster than manual picking;
- User-friendly 6 position joystick makes litter picking effortless and injury-free;
- 2900 CFM vacuum rating picks-up the heaviest litter;
- “Turn on a Dime” turning radius offers fast and safe maneuvers in any environment;
- 20” (508 mm) drive wheels climb 7” (178 mm) curbs with ease;
- 270-degree arm movement with 24 sq.ft. (2.2 m³) working area for unparalleled accessibility to litter;
- Vacuum compacts litter 2:1 ratio: 100-120 gallons (378-454 L) into a single heavy-duty disposable or re-usable bag;
- Straight-through suction system collects litter that is dry, humid, or wet.

Maintenance

- No oil, hydraulics, spills, or filters – minimal maintenance, minimal down-time for parts;
- Easy access to electrical panel and battery pack;
- No debris goes through the fan - no fan to jam.

Operator

- Operator-friendly control panel is easy to use;
- Single traction pedal – neutral, forward & reverse (no shifter).
- High operation seating for excellent safety and visibility;
- Adjustable suspended air seat with 3-point seat belt;
- Heavy-duty coil spring rear suspension offers more comfort, better traction and a safer ride;
- Roll Over Protection System (ROPS) provides additional safety;
- 340-degree rear visibility reduces risk of accidents.





Madvac[®] LR50e Data and Performance Information

Power		Cab	
Power Pack	Lithium-Ion high-energy capacity, LiFePO4 25 KW/h	Cab	Cab forward design, 200 degree vision (Option)
Voltage	48 Volts battery packs	Windshield	Full panoramic windshield (Cab Option)
Charger	2 Integrated chargers 7 Kw each on board	Propulsion	Forward, Neutral and Reverse. No shifter
Charger Outlets	Standard 120/12.5 Amps, 20 hours (1 charger 120V) Standard 120 /12.5 x2 Amps, 10 hours (2 chargers 120V)	Steering	Adjustable tilt steering column
Seat	Captain seat, arm rest & seat belt		
Vacuum System		Dimensions	
Fan Motor	Electric with permanent magnets (Brushless DC motor)	Width	48 inches (1219 mm)
Vacuum Rating	2900 CFM	Height	108 inches (2743 mm)
Air Flow Speed	8,400 ft./min	Wheel Base	63 inches (1600 mm)
Static Pressure	30 in. of water gauge (7.472 KPA)	Ground Clearance	8 inches (203 mm)
Litter Collection System		Electrical	
Frame / Body	Heavy gauge steel body on a welded ¼ in. structural steel frame	Voltage	48 Volts fused electrical system with master disconnect On/Off 12 volt fused electrical system
Litter Capacity	100 – 120 gal. (378 L – 454 L)	Dash board	Speed, Hour meter, Energy recuperation, Battery charge level Forward/Reverse, Power consumption and Vacuum consumption
Vacuum Type	“Flow through” system with 2 to 1 compaction ratio with reusable fibrous polypropylene bags	Diagnostic	Diagnostic screen logs hours of usage and events
Vacuum Hose	8 in. (203 mm), joystick controlled	Converter	AC to DC converter for accessories
Traction		Protection	GFCI (Ground Fault Circuit Interruption) on 120 Volts & 240 Volts
Drive System	Propulsion 9 Kw with 18 to 1 ratio	Charging	Charging status on diagnostic screen
Steering	Automotive type, power assisted	Lighting	2 headlights, brakes, turn signals, taillights, hazard, back-up alarm License plate & slow moving
Pedal	Neutral safety switch	Suspension	
Forward Speed	12 mph (19 km/h)	Front	Multi layer transverse, beam axle leaf springs with torsion bars
Brakes	Fail-safe emergency magnetic brakes	Rear	Heavy duty shocks & springs
Tires	Radial 145R12		



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Model LR50e - 100% electric litter vacuum vehicle with robotic arm



LR50e Options

			YES	NO
1	K13959	Two convex mirrors mounted on each side of cab	✓	
2	K11994	Road lighting package LED - (includes LED headlight, LED turn signals, LED brake lights, LED flashers, LED back up lights, back up alarm, license plate holder with light and SMV emblem)	✓	
3	K12140	Strobe amber beacon		
4	K15274	Airport strobe lights kit (2 in front + 2 in back)		
5	K13705	Emergency stop button	✓	
6	K11793	2 micron interior cylindrical filter cartridge - 105 sq. ft. of media (dust control)		
7	63271	Litter collector bags (bundle of 100) - (select this, or bagless)		
8	K12198	Bagless debris system (kevlar bin) - see photo above		
9	K11589	Enclosed cab with non-heated windshield and vinyl doors	✓	
10	K360149	Cab heater		
11	K14207	Fan for operator comfort		
12	K13119	Operator head protection cushion (headrest)		
13	K11823	Broom and rake holder		
14	K360528	48 in. vacuum head, hydraulic raise/lower with dual vac port		
15	K12132	Heavy duty black 8 in. (203mm) vacuum hose upgrade		
16	K9600	Tire flat proofing - liquid sealant (all four wheels)		
17	K11937	Retractable wander hose 6in. (152.4mm) x 15ft (4.5m)		
18	K12228	Fire extinguisher 2-1/2 lbs. (1 kg. dry powder)		

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