

LN50 $V \equiv V^{\bullet}$ Electric All-Terrain Litter Vacuum

Product Overview



www.madvac.com



Technical specs are subject to change without prior notice

Applications

From concrete to grass, the electric LN50 can tackle all types of urban terrain with ease.

- Parks and grass areas
- Sidewalks
- Bike and pedestrian lanes
- Parking lots
- Curb side
- Alleys
- Pathways
- Alongside buildings





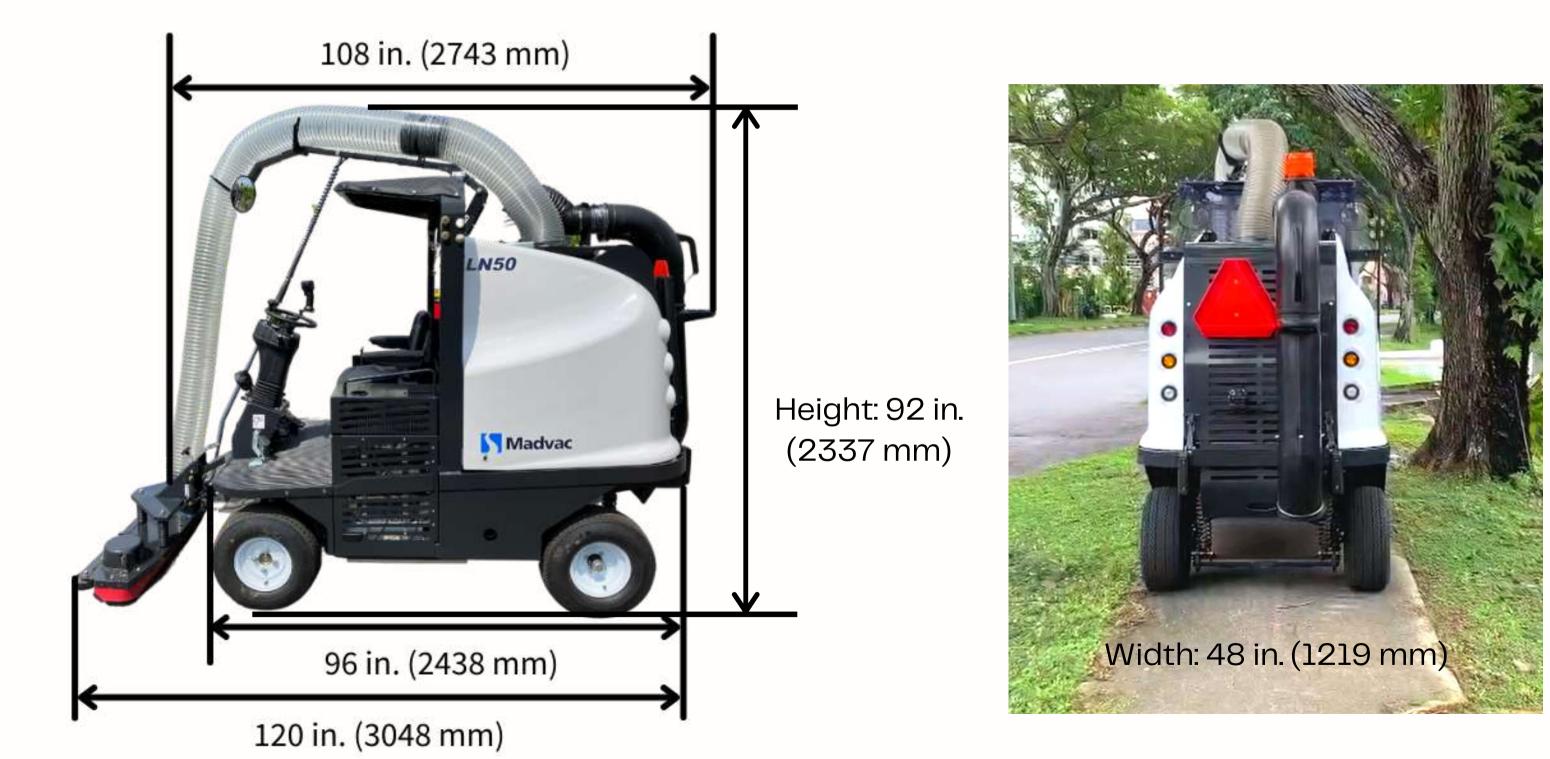


- Cities & municipalities
- Outdoor cleaning contractors
- Airports & seaports
- Transit authorities

- Shopping malls
- Educational & sports facilities
- Manufacturing facilities
- Amusement parks
- Casinos
- Military
- Correctional facilities

- Healthcare services
- Distribution centers





Dimensions





- Ground clearance: 10 in. (254 mm)
- Wheelbase: 69 in.
 (1753 mm)





- Axle rating:

Weight

218 lbs lighter than diesel model!

• Net/dry weight: 2356 lbs (1069 kg)

• Gross vehicle weight rating:

2940 lbs (1336 kg)

front 1980 lbs (898 kg)

rear 1980 lbs (898 kg)





- Heavy gauge steel body on a welded 1/4 in.
 (6.35 mm) structural steel frame
- Electrostatic powder-coated paint



Frame and Body

Cabin

- Cab size: 48 cu. ft. (1.36 cu. m.)
- Seating: 40.5 in. (1029 mm) above ground
- One seat with integral armrest, headrest, backrest, and adjustable support
- Heated seat for operator comfort (optional)
- Grab-handle and cup holder
- One safety lap belt
- Sunshield helps operator stay cool (optional)







- - - Beacon
 - Parking brake

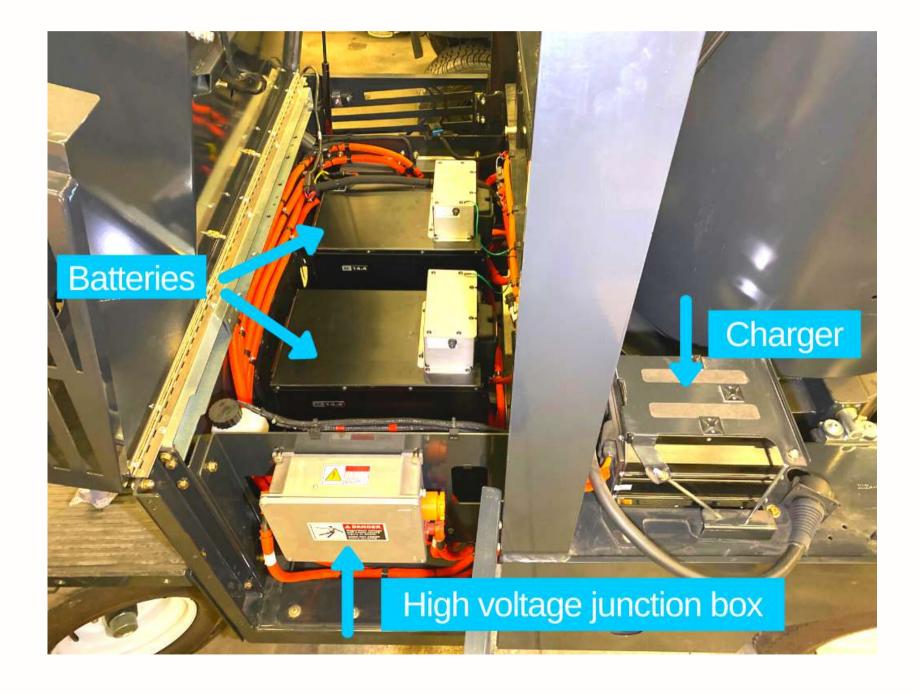
Steering Wheel

- Automotive-type steering wheel with
 - steering ball for ease of handling
- Rocker switches (from left to right):
 - Heated seat / headlight
 - Washer fluid / hazard
 - Flasher

• Forward / neutral / reverse

Power

- Power pack: Lithium–Ion nickel manganese cobalt (Li NMC) high energy capacity, up to 28.8 kW/h (2 batteries)
- Voltage: 102 volts battery packs (2)
- Autonomy: up to 9 hours



Charger

- Charger: integrated chargers 6 kW on board
- Charger outlet: J1772 level 2, 240V/24A
- Charging time: 5 hours (15–18 hours if 120-v wall socket)
- Charging status on diagnostic screen





Zero ZF75-5 Motor_

MOTOR:	ZF75-5
PEAK MOTOR TORQUE (FT-LB / N-M)	78 / 106
PEAK MOTOR HORSEPOWER (HP / KW)	46/34
PEAK MOTOR HORSEPOWER RPM	4300
PEAK EFFICIENCY	>94
MAX CONTINUOUS-RATED 30-MIN POWER (HP / KW)	21 /15.4
MAX OPERATING RPM	7500
MAX OPERATING TEMP (DEG C)	150
MIN OPERATING TEMP (DEG C)	-40
WEIGHT (LBS / KG)	33/15





General Machine Performance



- Max. forward speed: 12 mph (19 km/h)
- Max. reverse speed: 5 mph (8 km/h)
- Min. aisle turn: 180 in. (4572 mm)
- Internal turning radius: 60 in. (1524 mm)
- External turning radius: 90 in. (2286 mm) • Cleaning speed:
- Gradeability: 11.3 deg. (20%) with full & empty hopper
- up to 84,480 sq. ft. per hour
- Curb climbing: 7 in. (178 mm) tall

Instrument Panel

- Speed
- Hourmeter
- Energy recuperation
- Battery charge level
- Forward / reverse
- Power consumption and vacuum consumption
- Operator presence indicator
- Parking brake indicator
- Left / right signal indicator
- Key ignition for starting and stopping the vehicle





- Steering: power assisted
- Propulsion: forward, neutral, reverse
 push button shifter







Traction

- Drive: propulsion with 17 to 1 ratio
 Turf size (all 4 wheels)
- Regular: 20.5 x 8 x 10 in. /
 - 520x203x254 mm (205/65-10)
- Turf MV17094: 20 x 8 x 10 in. /
 - 508x203x254 mm (205/60-10)
- Tire load capacity: 1323 lbs / 600 kg per tire
- Brakes: drum service brakes with magnetic parking brake

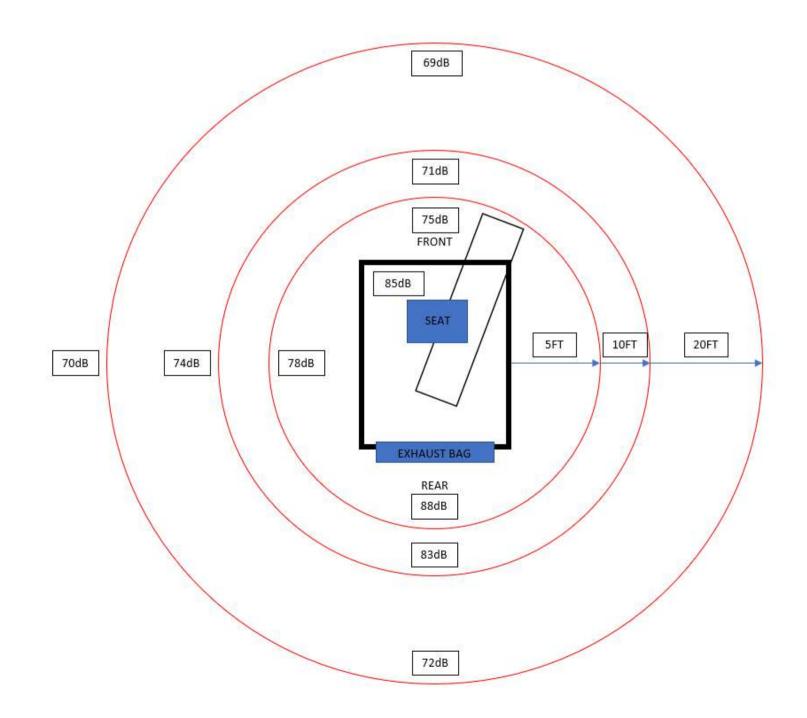




Suspension

- Front: leaf spring
- Rear: leaf spring







dB rating 11.5% - 16.5% *lower than the LN50 diesel*

Noise Reduction



Front decibel

- Cabin: 85 dB
- 5 feet away: 75 dB
- 10 feet away: 71 dB

Lighting

- Strobe beacon
- LED headlight
- LED turn signals
- LED brake lights
- LED flashers
- LED backup lights
- License plate holder with light
- SMV emblem



Vacuum Fan and Suction System

- Vacuum passes through a fibrous bag and is collected inside the bag
- Vacuum rating: up to 1800 CFM
- Straight-through suction system
 compacts litter 2:1 ratio
- Vacuum fan diameter: 14 in. (365 mm)
- Vacuum fan position: bottom mounted
- No litter comes in contact with the fan



- 160-degree arm movement with 4 ft.
 (1220 mm) reach
- Diameter: 7 in. (178 mm)
- Right-side support for hose storage in transport mode



Vacuum Hose



Vacuum Hose Support Arm



Eliminates potential for workers' compensation claims

Mirrors



2 convex mirrors mounted on vacuum arm with 340-degree rear visibility







Vacuum Arm Handle



Controls for effortless up / down displacement of the boom





- Optional for effortless vacuuming
- Width: 48 in. (1219 mm)
- 2 operating positions with one on each side of the vacuum head



Vacuum Head

Wander Hose

- Optional for confined, hard-to-reach areas
- Length: 15 ft. (4.57 m)
- Diameter: 6 in. (152 mm)



Litter Container and Bag

- 16-gauge powder-coated steel container
- Air cylinder power-assist tilt container
- Litter capacity

- Volume: 75 gal. (284 L)
- Weight: 150 lbs (68 kg)
- Bag size: 42 x 51 in.
 (1066 x 1295 mm)







Bagless Debris System: Kevlar Bin



Optional Kevlar bin can be filled, then emptied into off-the-shelf bag





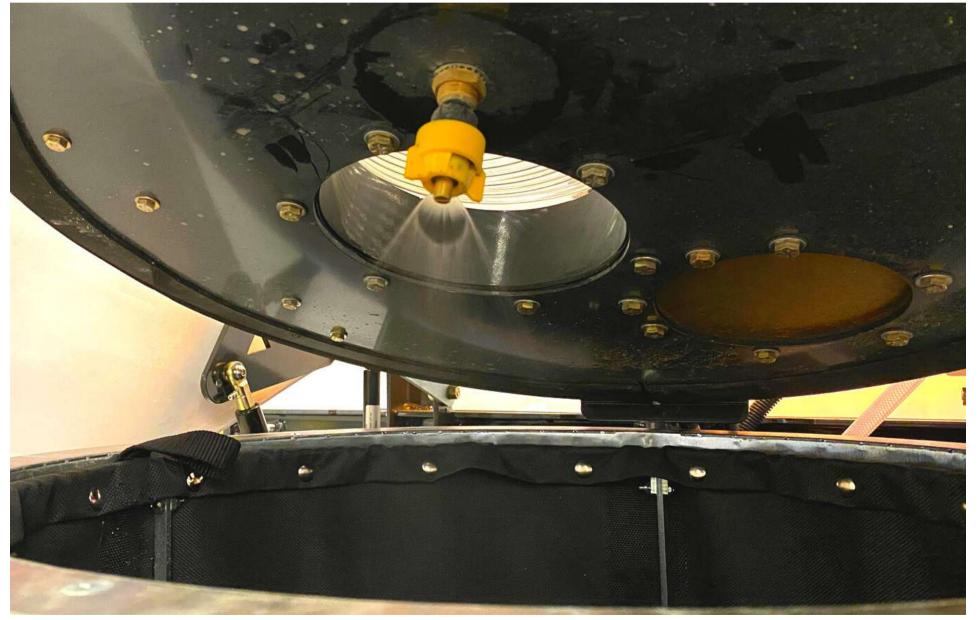
Dust Control - Exhaust Bag



Exhaust bag captures dust particles that can escape from the minute holes of the special Madvac collector bags or Kevlar bin



Dust Control - Water Mist





Optional intermittent water mist system with 10.17 gal. (38.5 L) water tank: controls dust and reduces risk of cigarette butt fire inside the container







R.O.P.S. rollover protection system

Fire extinguisher (optional) 2.2 lbs (1 kg) dry powder

Safety



Emergency stop button

Convenience





Foot step helps operator climb on board easily and safely Foot activated horn gives operator more ease and convenience than pressing the turn signal lever



Broom and rake holder







Tire flat proofing – liquid sealant (optional) Console accessory box with USB / 12V aux outlet and switch optional water mist system



n License plate holder

Convenience

Easy access to critical components of the machine

- Hinged power-assisted air cylinder tilt seat for access to battery compartment
- Hinged side door for HVJB (high voltage junction box) access



To schedule a demo, request a quote, or for more information on the LN50 electric allterrain litter vacuum:



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www.madvac.com

awarded contract vendor #093021-EXP

Contact

