

All-Terrain Litter Vacuum

LIN50 (diesel)

Product Overview



Jan 2023

LN50 (diesel) options

Heated seat	13
Sunshield rooftop	14
Vacuum head	29
Wander hose	30
Litter collector bags	32
Bagless debris system	33
Water mist system	35
Fire extinguisher	36
Floor mounted heater	37
Tire flatproofing	41

Applications / Cus Specs, Characteri Vacuum System.... Litter Collection S Safety, Comfort & Contact Us.....

Technical specs are subject to change without prior notice

Table of Contents

stomers / Attributes	3-5
istics & Performance	6-23
	.24-30
ystem	31-35
Convenience	36-43
•••••••••••••••••••••••••••••••••••••••	44



Application

From concrete to grass, the 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



Customers

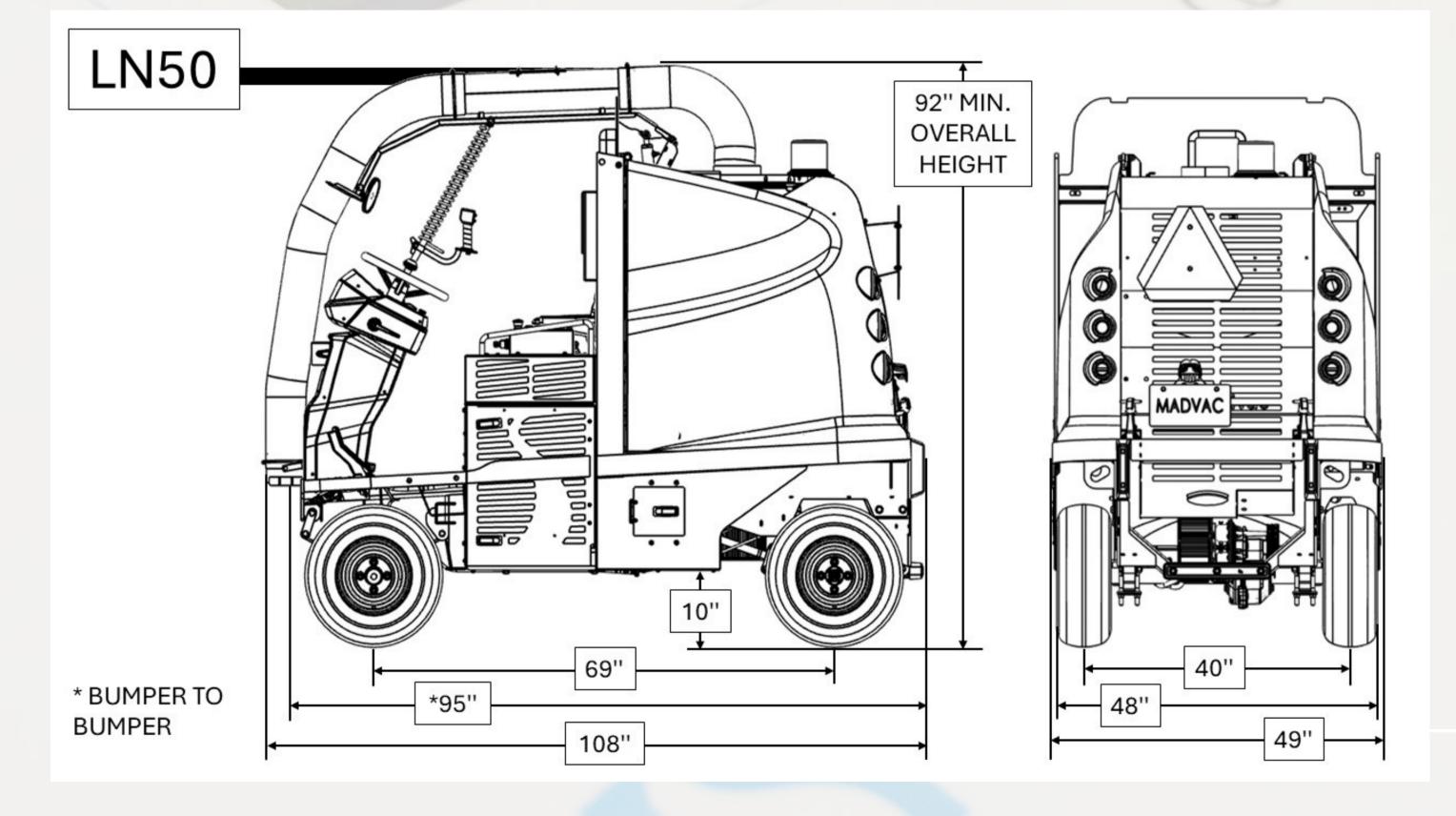
- Cities & municipalities
- Outdoor cleaning contractors
- Airports & seaports
- Transit authorities
- Healthcare services
- Distribution centers
- Shopping malls
- Educational & sports facilities
- Manufacturing facilities
- Amusement parks
- Casinos
- Military
- Correctional facilities



Attributes

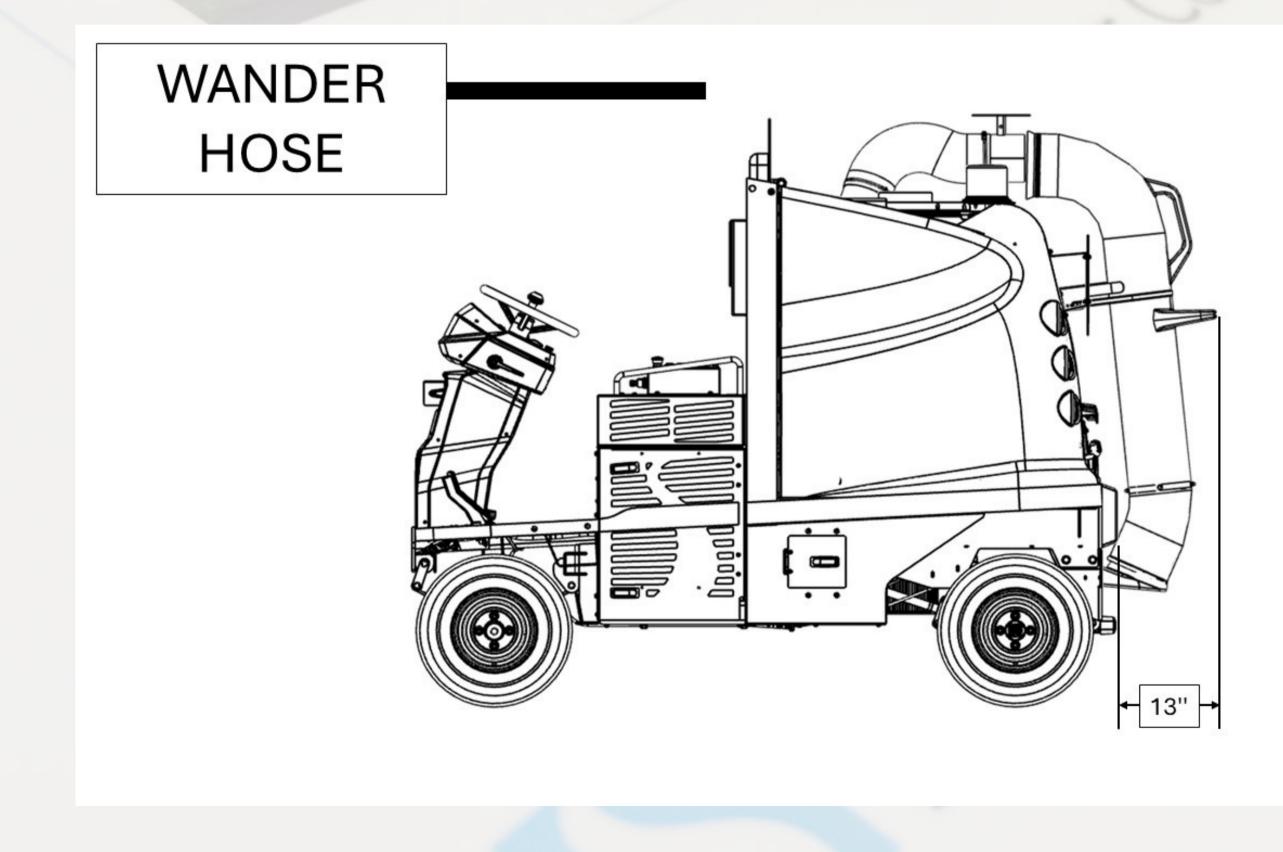
- LN50 replaces 6 to 8 manual litter pickers (equal quantity of litter removed within same time period)
- Can collect litter that is dry, humid, or wet
- All-terrain vehicle
- Easy to operate, no CDL required
- Street legal lighting package





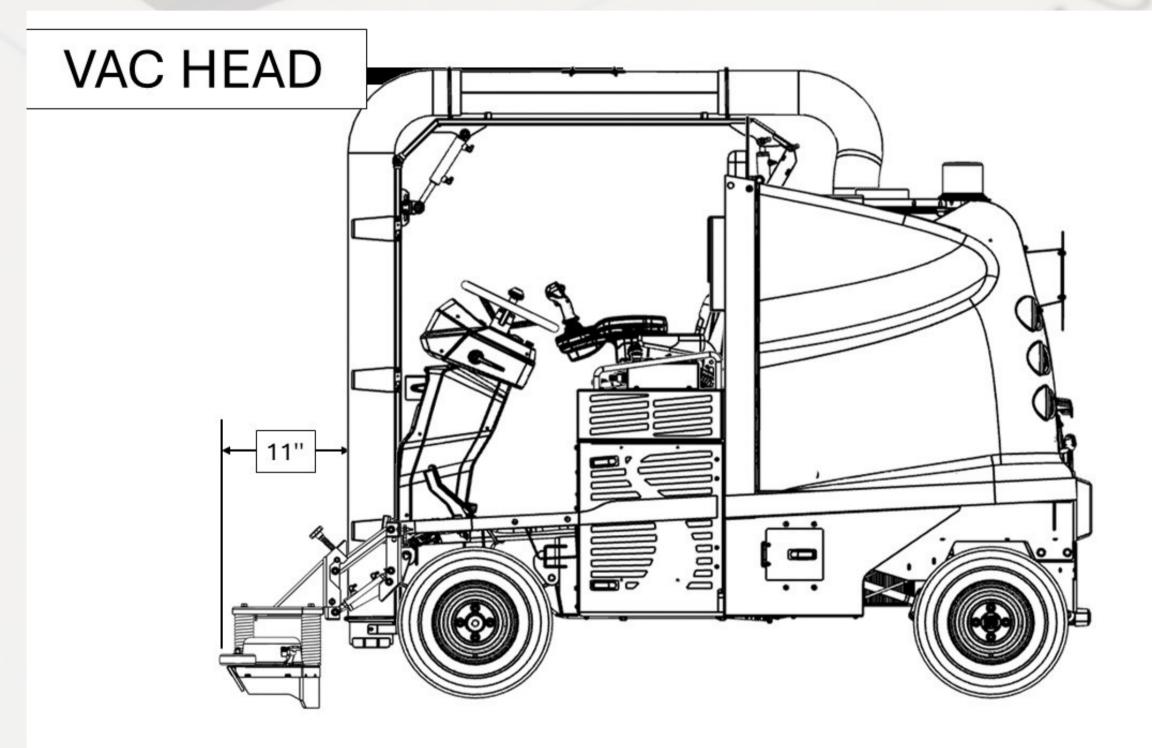
Inches to mm



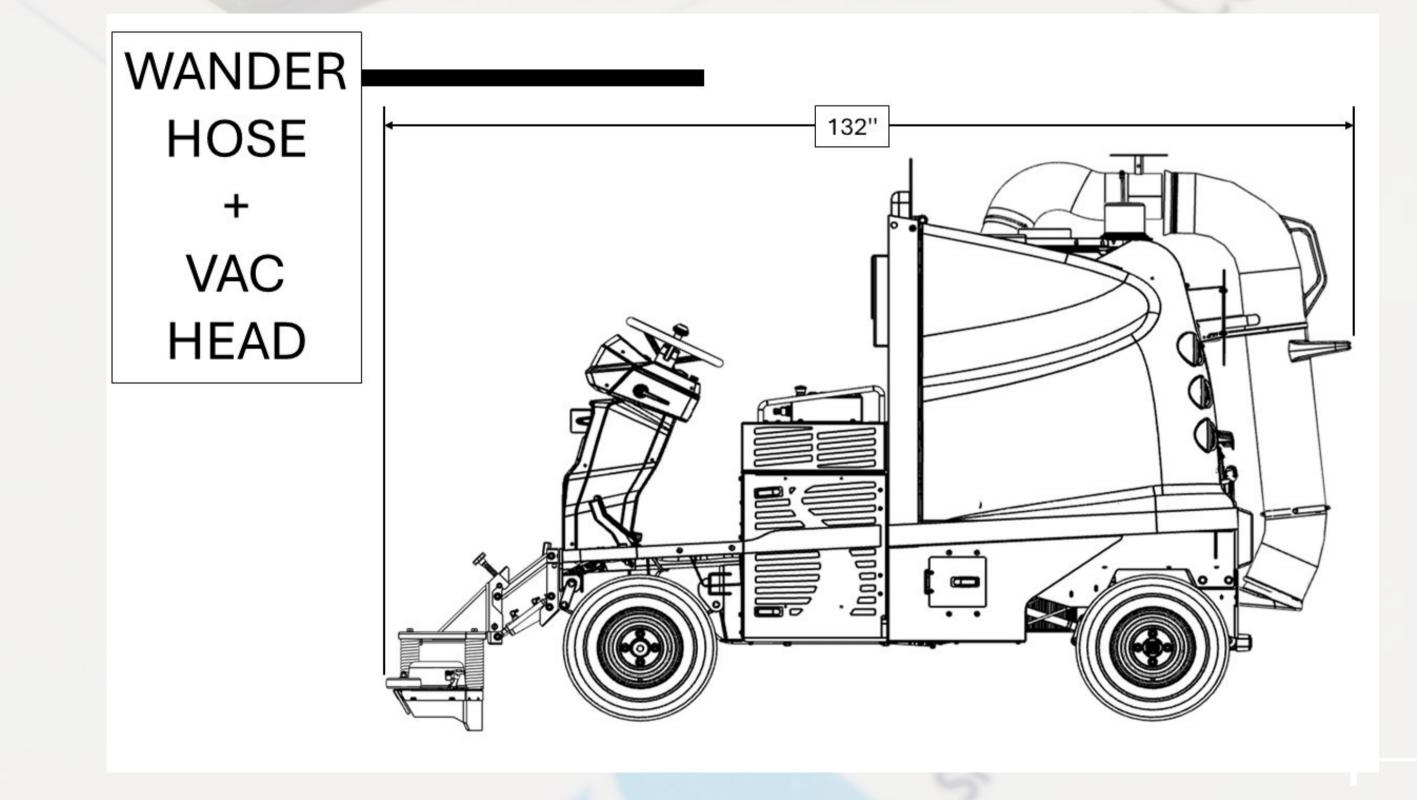


Inches to mm 13 330









Inches to mm 132 3353



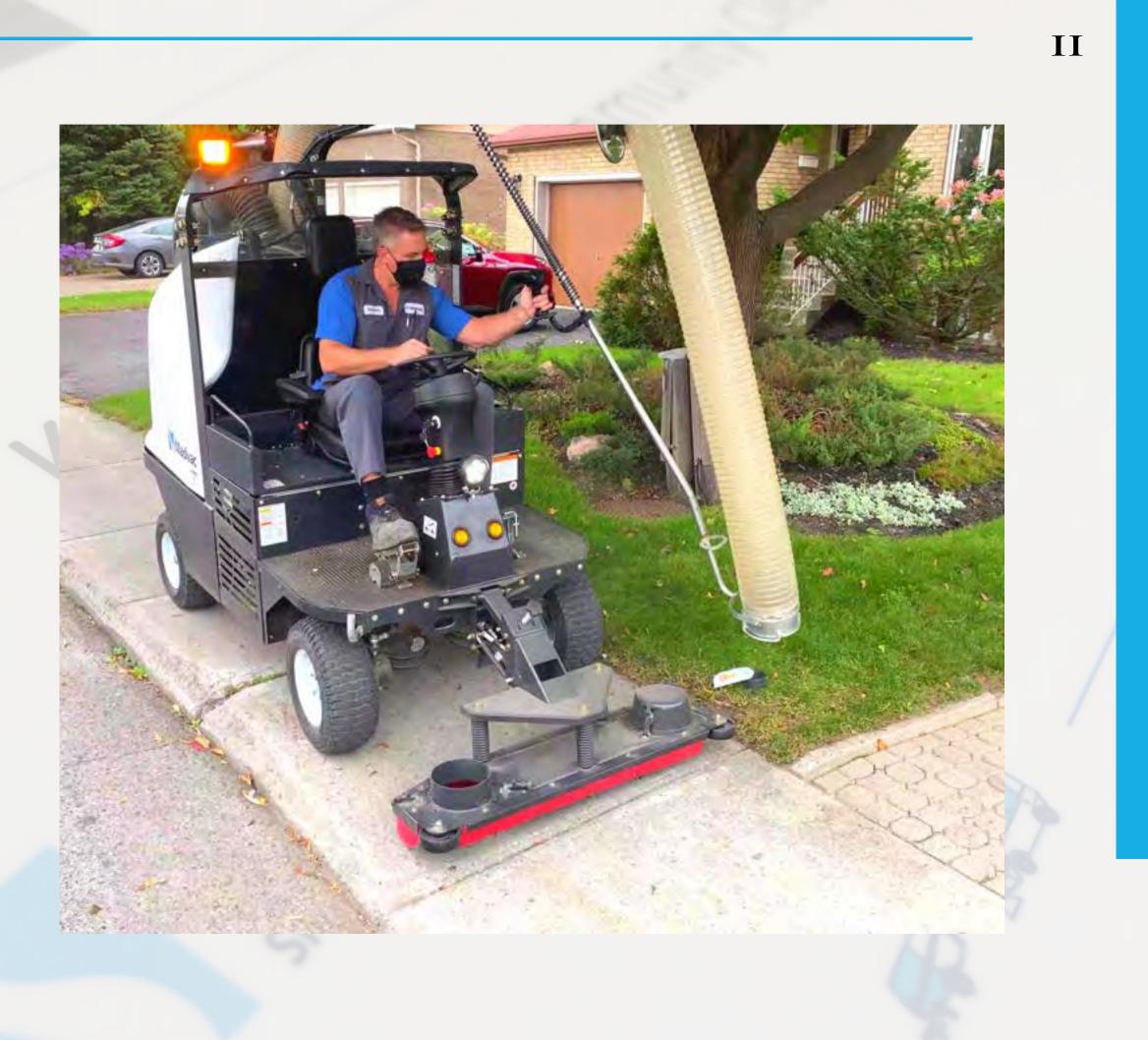
IO

Ground Clearance & Curb Climbing

Curb climbing: 7 in. (178 mm) tall

Weight

- Net/dry weight: 2579 lbs (1170 kg)
- Gross vehicle weight rating: 3150 lbs (1429 kg)
- Axle rating: front 1980 lbs (898 kg) rear 1980 lbs (898 kg)





Frame & Body

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

Cabin

Cabin size: 48 cu. ft. (1.36 cu. m.)





• Armrest, headrest, and optional heated seat for operator comfort • Grab-handle and cup holder • One safety lap belt Automotive-type steering wheel with steering ball for ease of handling

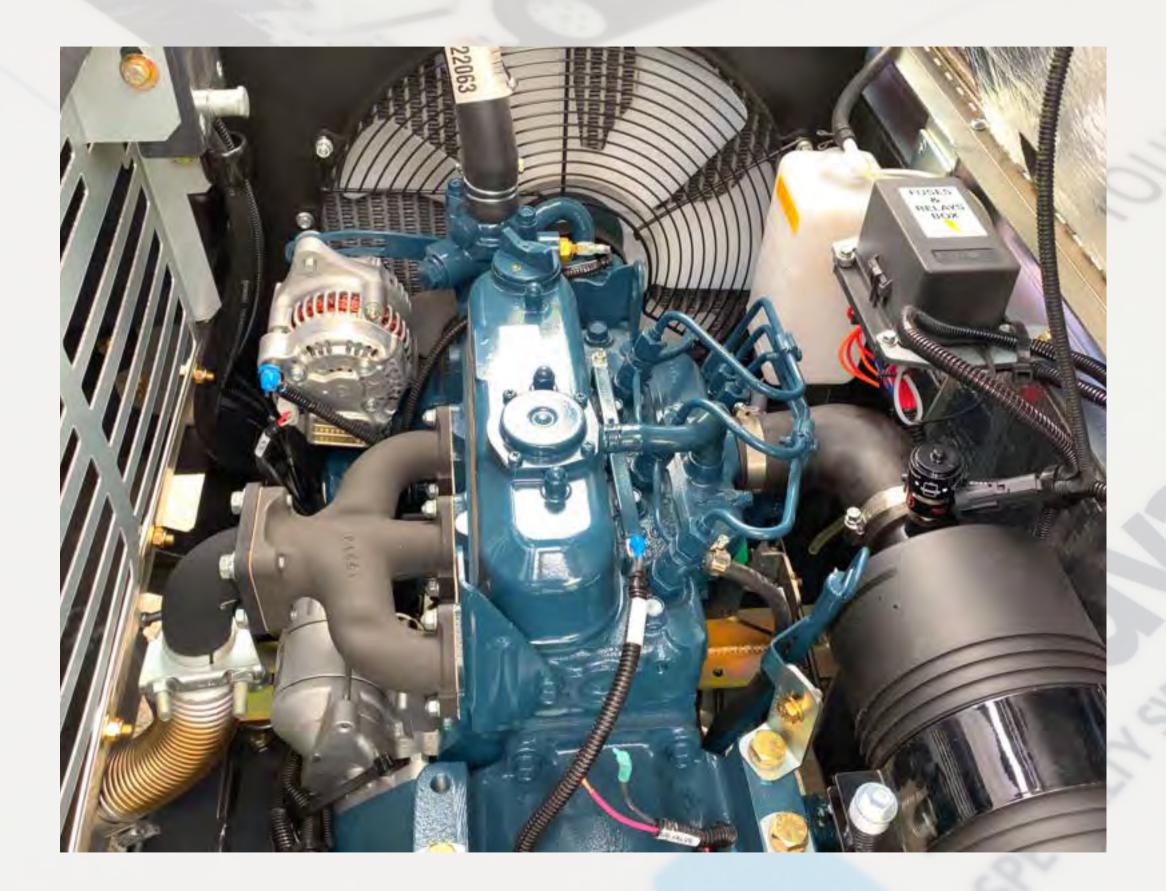
Sunshield Rooftop

Optional sunshield helps operator stay cool









Engine

- Model: Kubota Diesel
 D1105-E4B (EPA Tier 4 Final)
- Power: 24.8 hp (18.5 kw) @
 3200 rpm
- Displacement: 68.53 cu.in.
 (1123 cc)

Air cleaner: 2-stage
 Donaldson with restriction indicator



- Max. forward speed: 11 mph (18 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 litter container)

16

General Machine Performance

up to 84,480 sq. ft. per hour



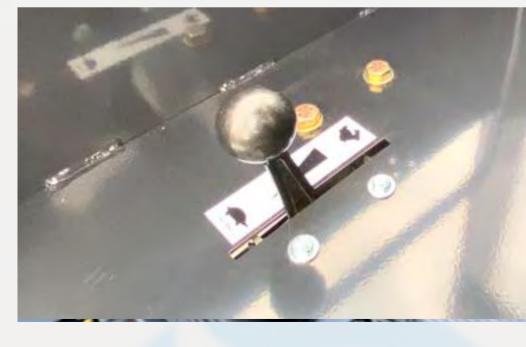




Instrumentation & Controls

 Turn signal/horn/beacon/work light switch and lever • Fuel gauge • Operator presence indicator Parking brake indicator • Left/right signal indicator • Engine oil pressure indicator • Engine temperature light Hourmeter Glow plug indicator • Hazard light switch Low voltage indicator light (...continued on following page)



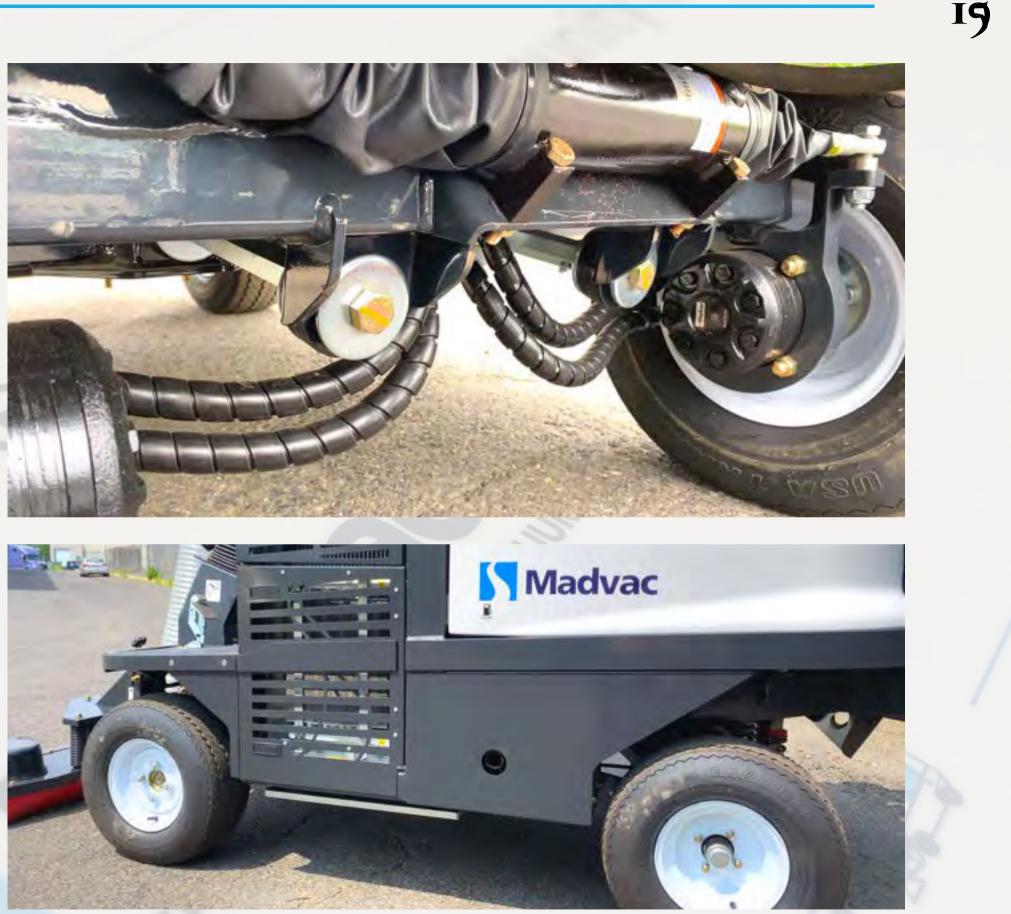


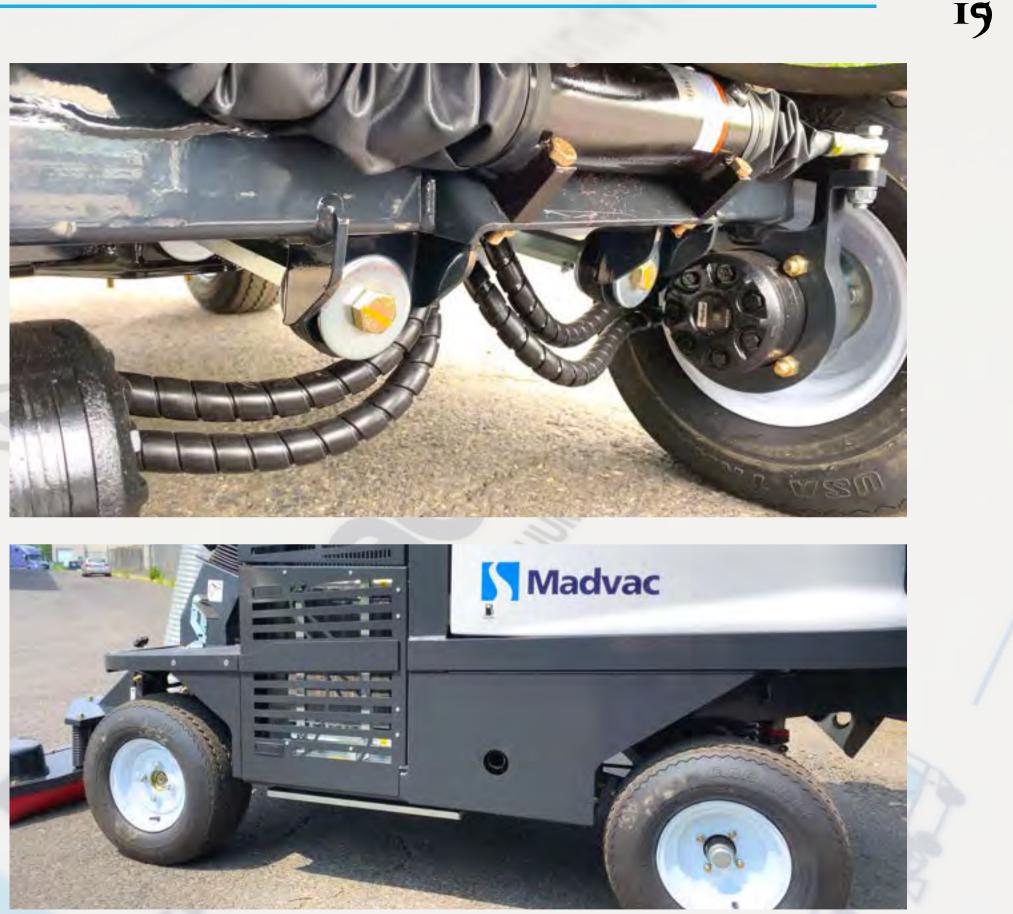
- Key ignition for starting and stopping the engine
- Key ignition glow plug on prior to starting the engine
- Neutral start switch installed on traction control pedal prevents engine from starting if pedal is pressed
- Brake pedal on opposite side of steering column
- Throttle: progressive lever (idle up to maximum operating speed)
- Steering: adjustable tilt steering column

Instrumentation & Controls

Drive

- Drive: front wheel drive
- Drive system: heavy-duty hydrostatic
- Turf size (all 4 wheels)
 - Regular: 20.5x8x 10 in. / 520x203x254 mm (205/65-10)
 - Turf MV17094: 20x8x10 in. / 508x203x254 mm (205/60-10)
- Tire load capacity: 1323 lbs / 600 kg per tire
- Brakes: front hydrostatic brake; rear mechanical disc parking brake
- Suspension: leaf spring front & rear







dB Rating

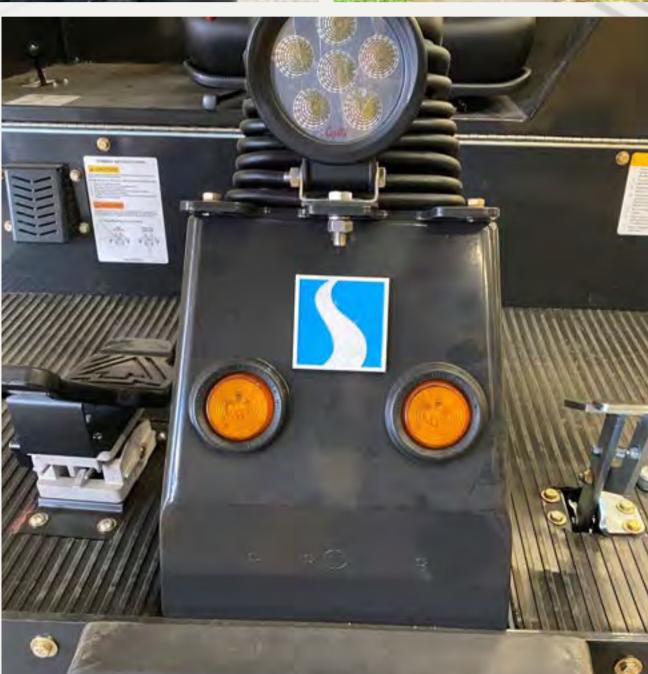
Front decibel

- Cabin: 96 dB
- 5 feet away: 88 dB
- 10 feet away: 85 dB
- 20 feet away: 83 dB









Lighting

Complete road lighting and signaling package

Strobe beacon

- LED headlight
- LED turn signals
- LED brake lights
- LED flashers
- LED backup lights (with backup alarm)
- License plate holder with light
- SMV emblem

Fuel Tank

Capacity: 10.2 gal. (39 L)







Can easily do an 8-hour shift

Capacity: 12.5 gal. (47 L)

Hydraulic Oil Tank

Easily accessible with see-through oil level indicator

	ALL PRESSURE ARE PRESET AT THE FACTORY AND REQUIRE
HYDRAULIC PN:: 7837	NO ADJUSTMENT. ANY ATTEMPT TO ADJUST OR ALTER THESE SETTINGS MAY CAUSE DAMAGE TO EQUIPMENT AND/OR A MALFUNCTION OF THE MACHINE. ONLY QUALIFIED SERVICE PERSONEL MAY ALTER PRESSURE SETTINGS.
	LES PRESSIONS HYDRAULIQUES SONT AJUSTÉES À L'USINE ET NE REQUIÈRENT AUCUN AJUSTEMENT TOUT CHANGEMENT DE CES AJUSTEMENTS PEUT CAUSER DES DOMMAGES À L'ÉQUIPEMENT OU UNE DÉFECTUOSITÉ DE L'APPAREIL SEULEMENT UN TECHNICIEN QUALIFIÉ PEUT EFFECTUER DES CHANGEMENTS DE RÉGLAGE.
	MWARNING



Vacuum fan position: bottom mounted

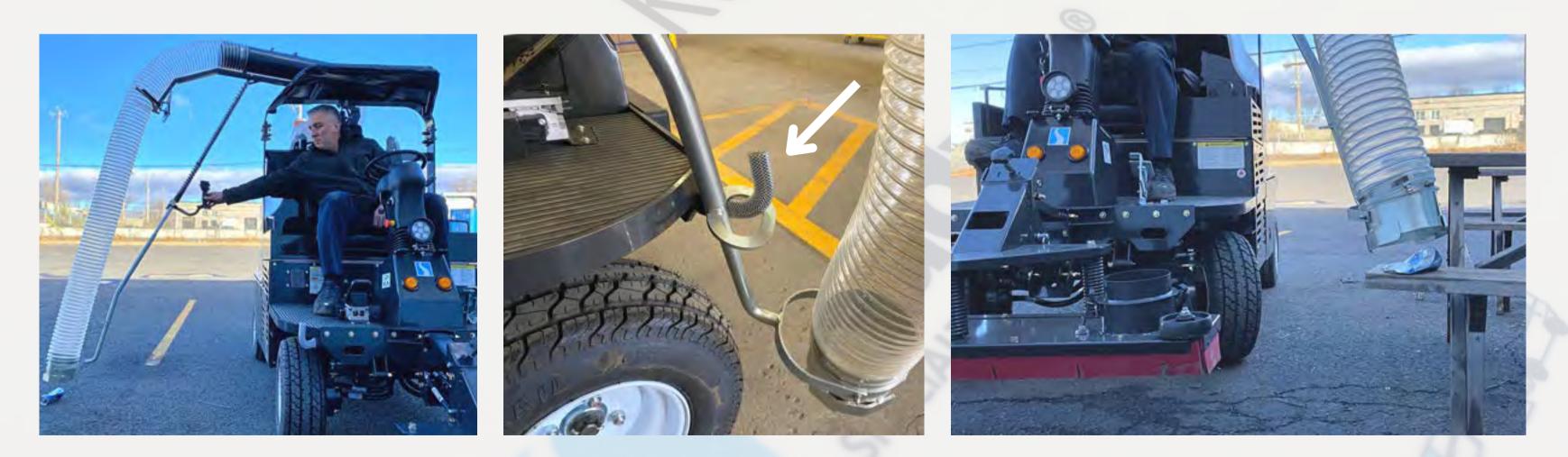


Vacuum Fan & Suction System

- system compacts litter 2:1 ratio the fan
- Straight-through suction No litter comes in contact with
- Vacuum rating 1800 CFM

Vacuum Hose

- Diameter: 7 in. (178 mm)
- Right-side support for hose storage in transport mode
- 160-degree arm movement with 50 in. (1270 mm.) reach
- Bottom of suction hose maximum lift above ground surface: 26 in. (660 mm)



e ch urface: 26 in. (660 mm)

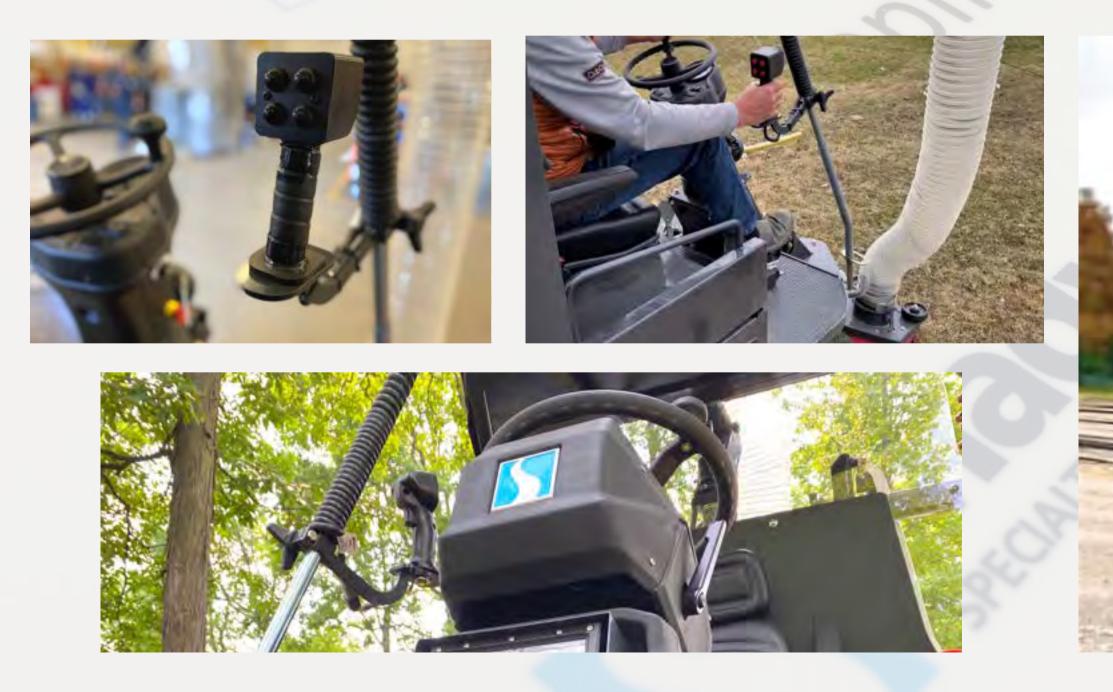
Vacuum Hose Support Arm

For operator safety and easy displacement of the boom | removable plate to access top hose

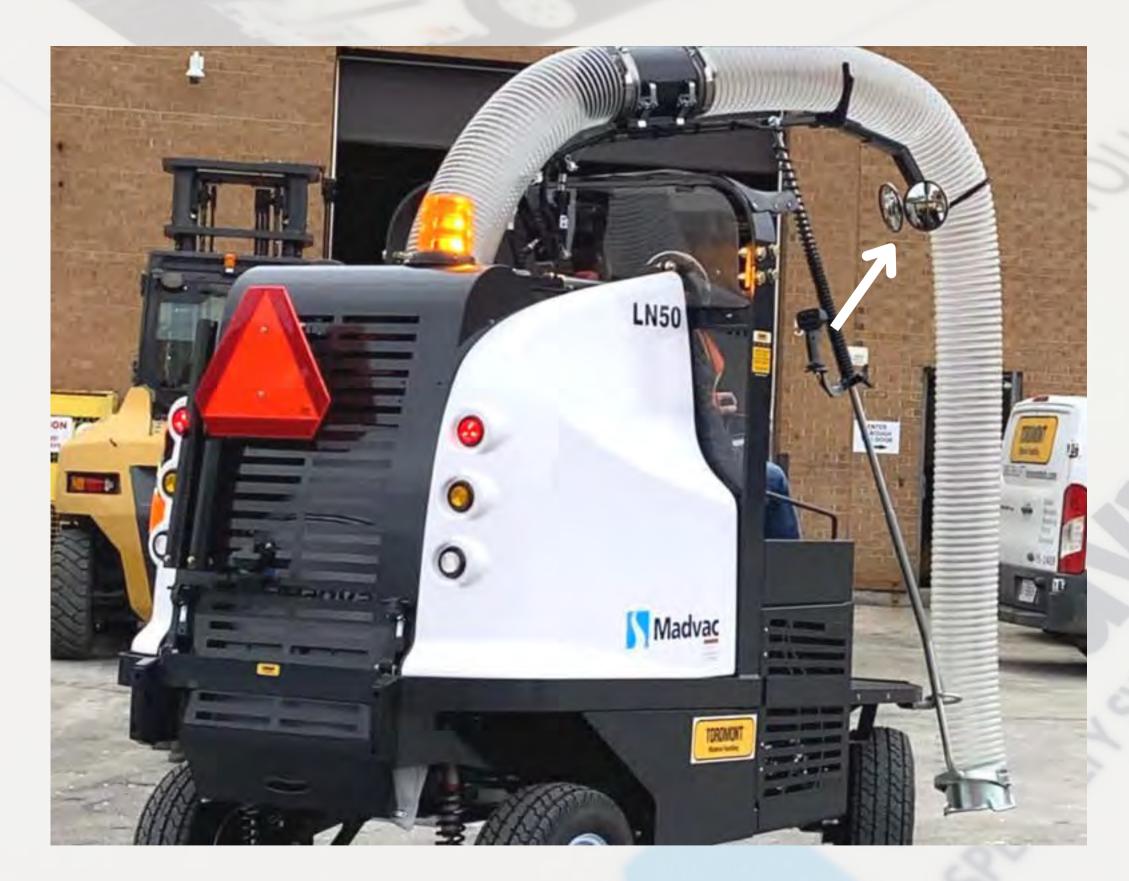


Vacuum Arm Control

Hydraulic assist up/down movement of the boom for effortless displacement 4-button joystick control for up / down / vacuum fan ON / vacuum fan OFF



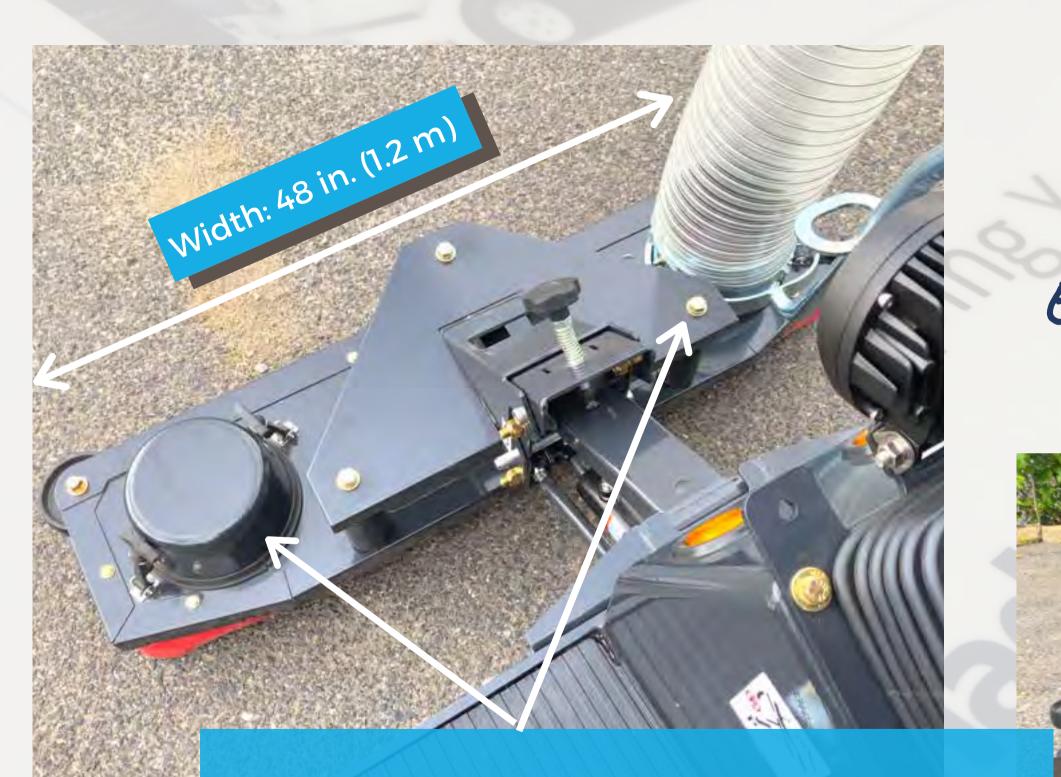




Mirrors

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





2 operating positions : one on each side of vacuum head

Vacuum Head Optional

Effortless vacuuming, simply drive over litter



Wander Hose

Optional

For confined, hard-to-reach areas

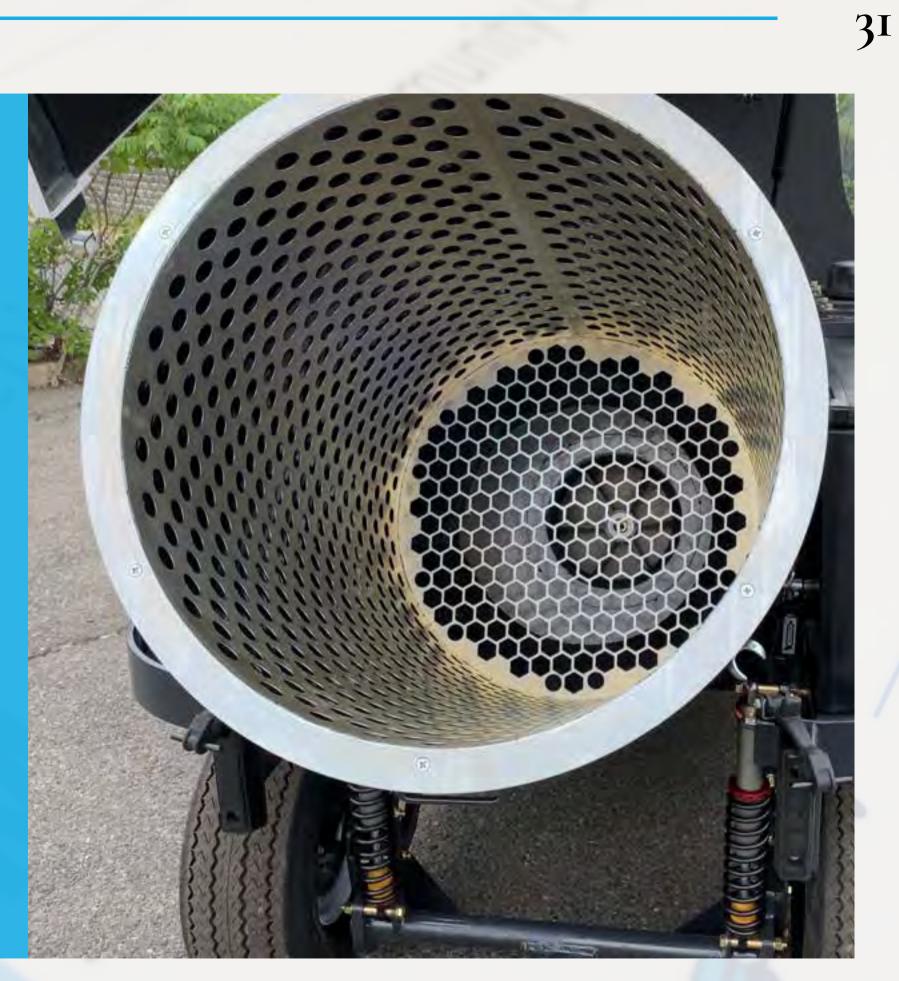
Length: 15 ft. (4.57 m) Diameter: 6 in. (152 mm)



Container

One bag One container Easy, Fast, Efficient

- 16-gauge powder-coated steel container
- Air cylinder power-assist tilt
- Litter capacity
 - Volume: 75 gal. (284 L)
 - Weight: 150 lbs (68 kg)





Bag size: 42 x 51 in. (1066 x 1295 mm)

Litter Bags

One container, one bag easy bag changing process that takes only 45 sec!

Bagless Debris System: Kevlar Bin



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

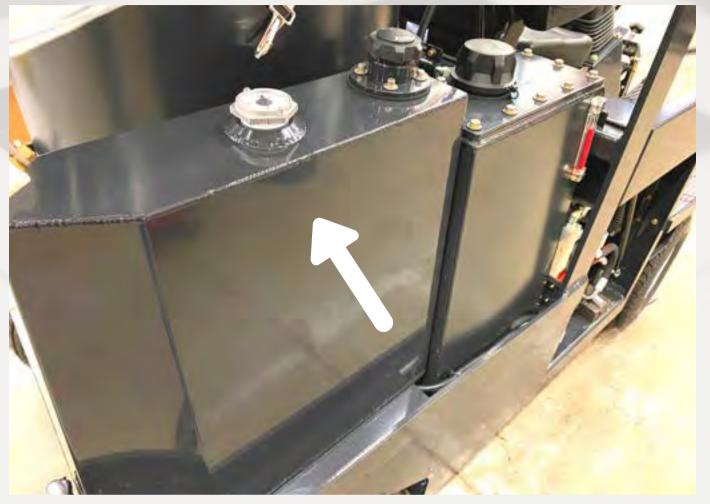


Dust Control

34

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





Dust Control

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





Safety

STRUCTION

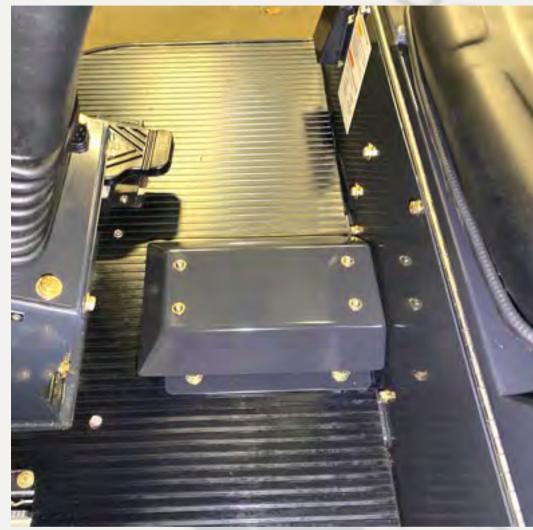
Fire extinguisher (optional)

R.O.P.S. rollover protection system



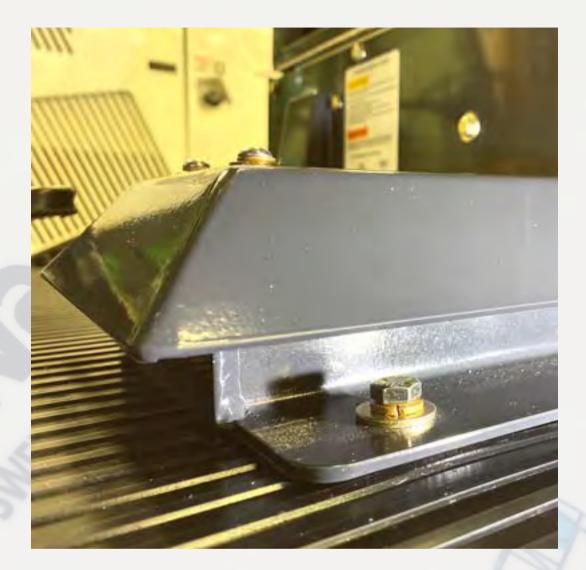






Foot Heater

Optional 2-speed floor-mounted heater keeps operator's feet warm during cold weather



Console Accessory Box

Console accessory box with USB / 12V aux outlet and switch for optional floor heater and optional water mist system











Foot Step

Helps operator climb on board easily and safe

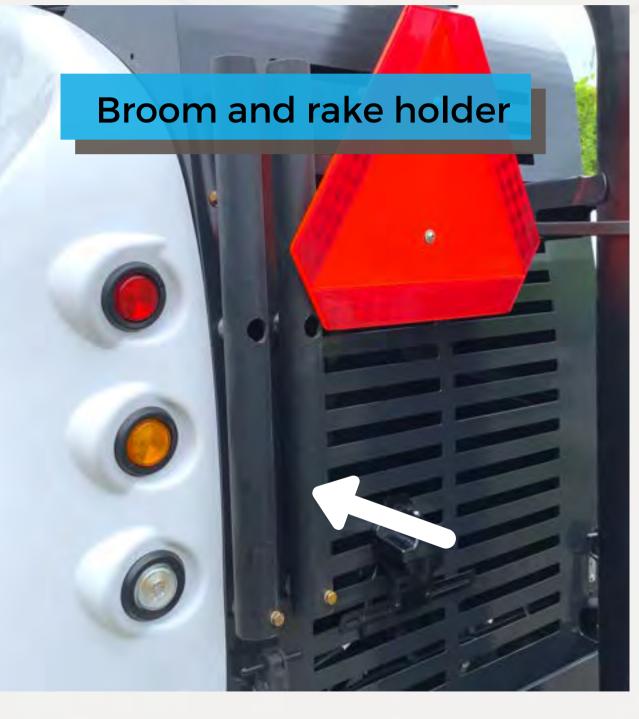


Foot Activated Horn

Allows the operator to use the horn while keeping one hand on the steering wheel and the other controlling the vacuum arm



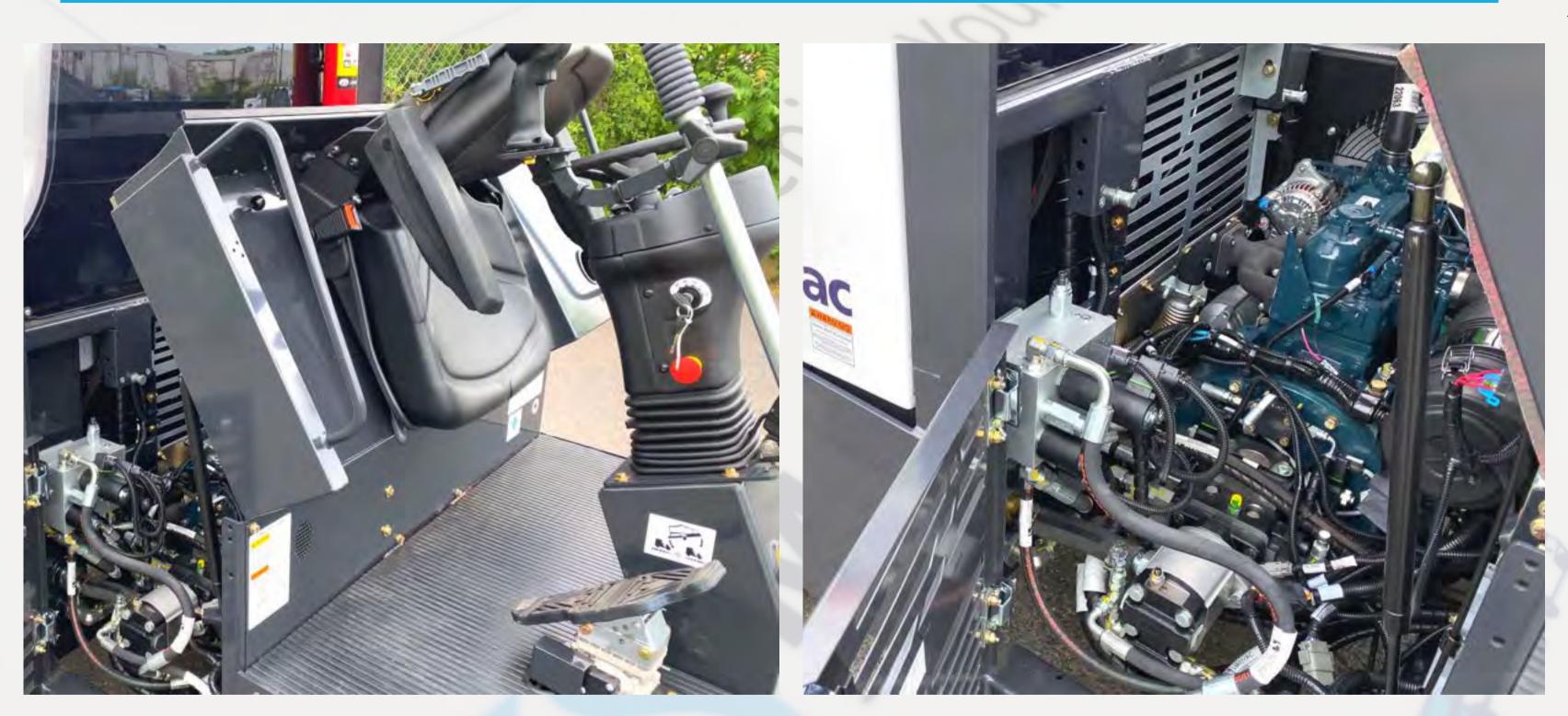
Convenience





License plate holder





Tllt seat for engine compartment

Easy access to all critical components of the machine





43

Easy access to all critical components of the machine

> Hinged side door for oil cooler and radiator



To schedule a demo, request a quote, or for more information on the MADVAC LN50 diesel all-terrain litter vacuum:



855-651-0444 (USA/Canada) 1-450-651-0444 (International)



info@exprolink.com



www.madvac.com

awarded contract vendor **#093021-EXP**

Contact

S Excelway[®] **S Madvac**[®]

2 Brands, ONE Great Company

Exprolink

