# **Madvac**®

### All-Terrain Litter Vacuum

# LR50 (diesel) Product Overview

www.madvac.com



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Technical specs are subject to change without prior notice

### LR50 (diesel) options

Enclosed cab with heated or non-heated	
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# Application

From concrete to grass, the LR50 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

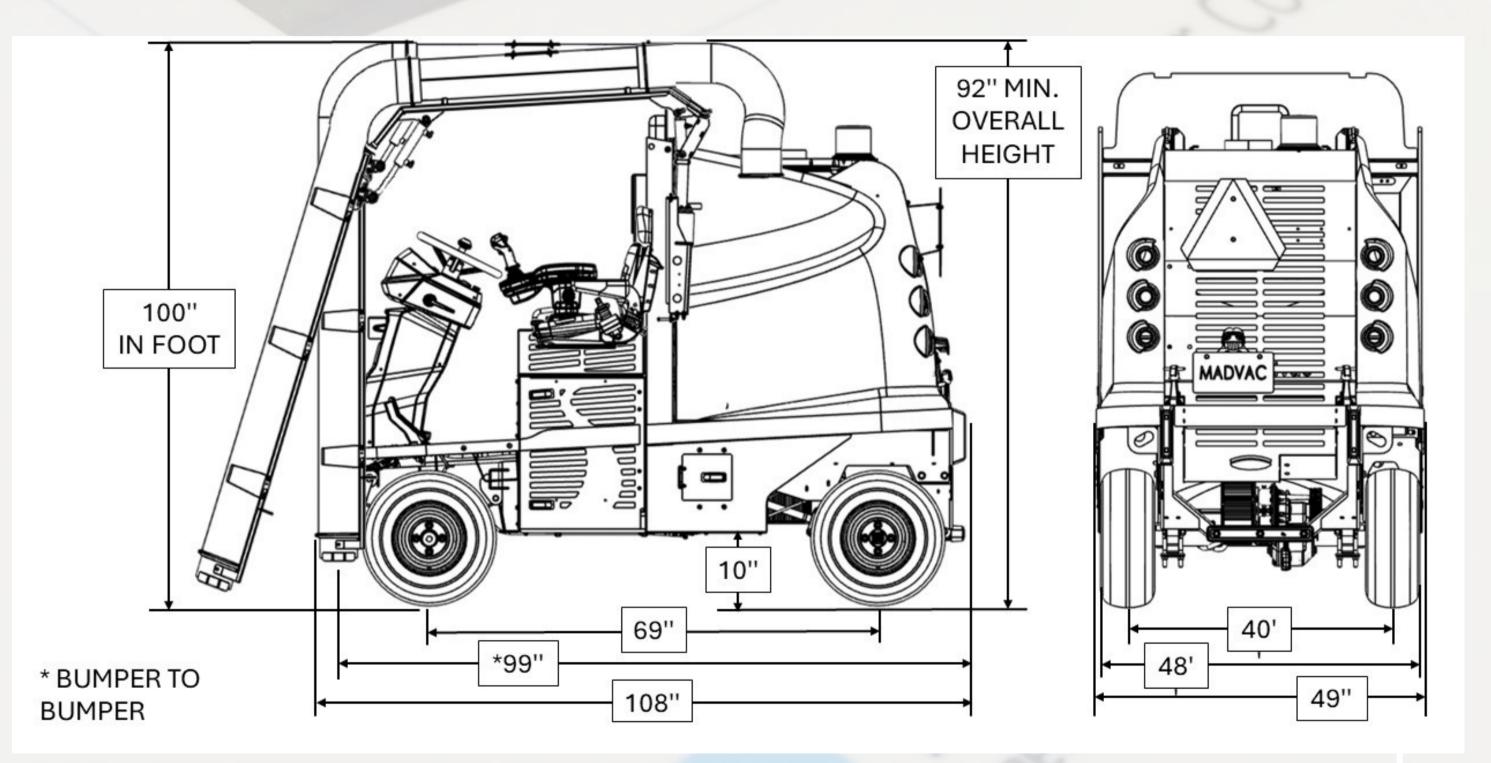
- Cities & municipalities
- Outdoor cleaning contractors
- Airports & seaports
- Transit authorities
- Healthcare services
- Distribution centers
- Shopping malls
- Educational & sports facilities
- Manufacturing facilities
- Amusement parks
- Casinos
- Military
- Correctional facilities



## Attributes

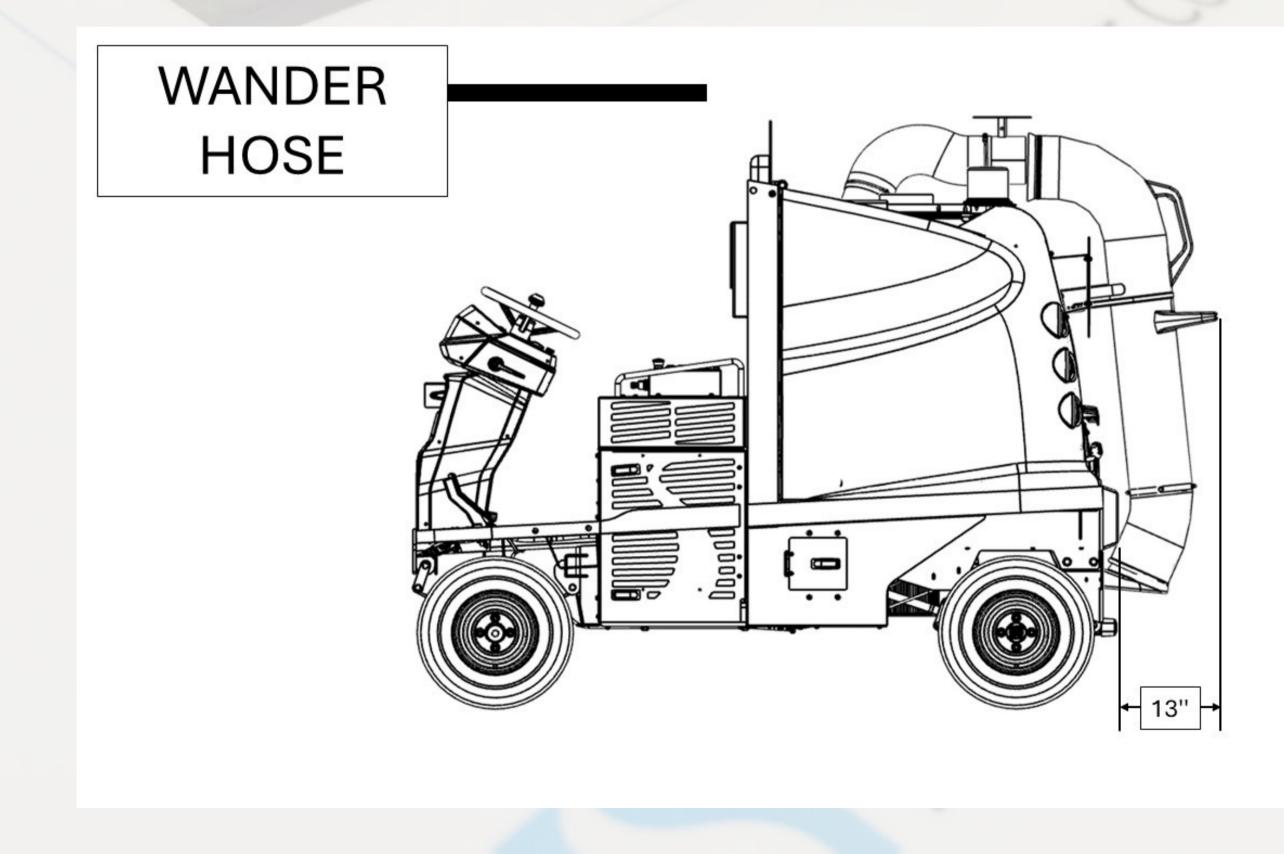
- LR50 replaces 6 to 8 manual litter pickers (equal quantity of litter removed within same time period)
  Can collect litter that is dry,
  - humid, or wet
- All-terrain vehicle
- Easy to operate, no CDL required
- Street legal lighting package





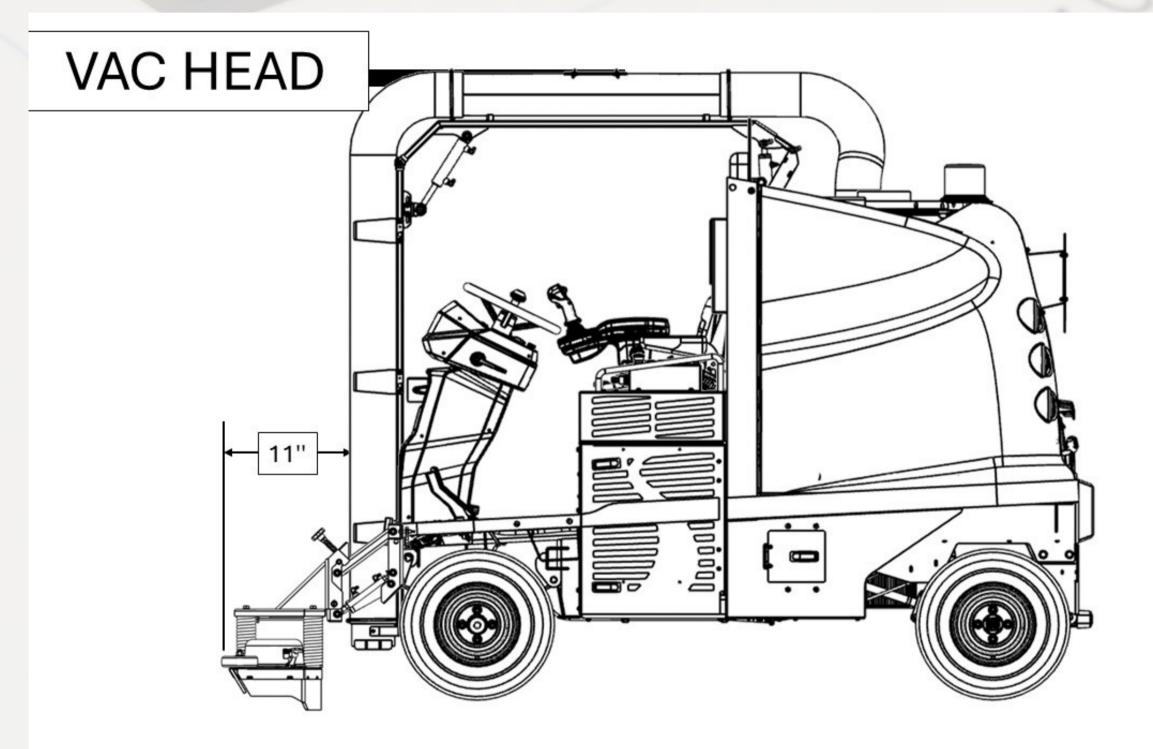
### **Inches to mm**



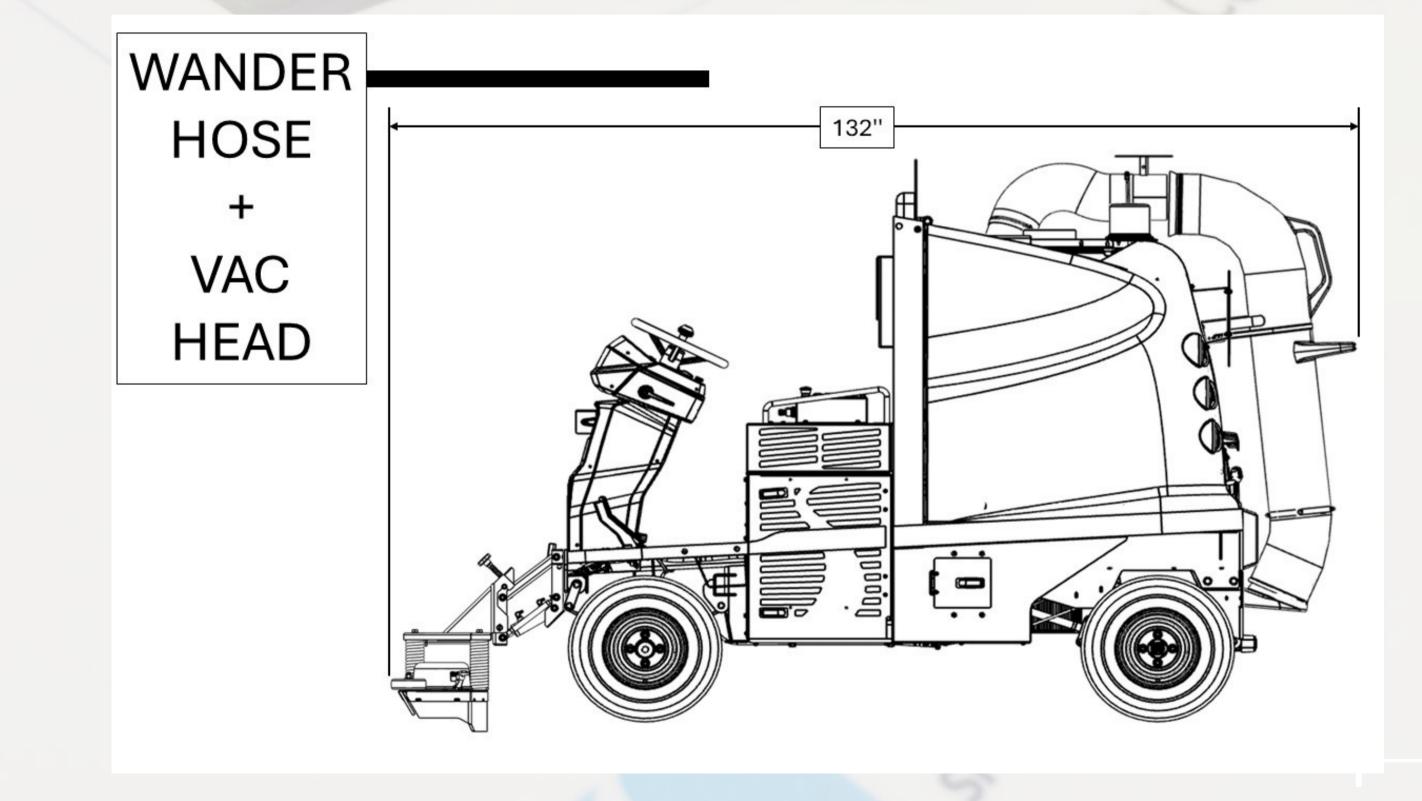


Inches to mm 13 330









### Inches to mm 132 3353



Ground clearance: 10 in. (254 mm) **IO** 

# Ground Clearance & Curb Climbing

Curb climbing: 7 in. (178 mm) tall

# Weight

- Net/dry weight: 2910 lbs (1320 kg)
- Gross vehicle weight rating: 3500 lbs (1587 kg)
- Axle rating: front 1980 lbs (898 kg) rear 1980 lbs (898 kg)



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## Frame & Body

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

## Cabin





- 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

Seating: 40.5 in. (1029 mm) above ground

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





### Enclosed cab with heated or non-heated windshield and vinyl doors

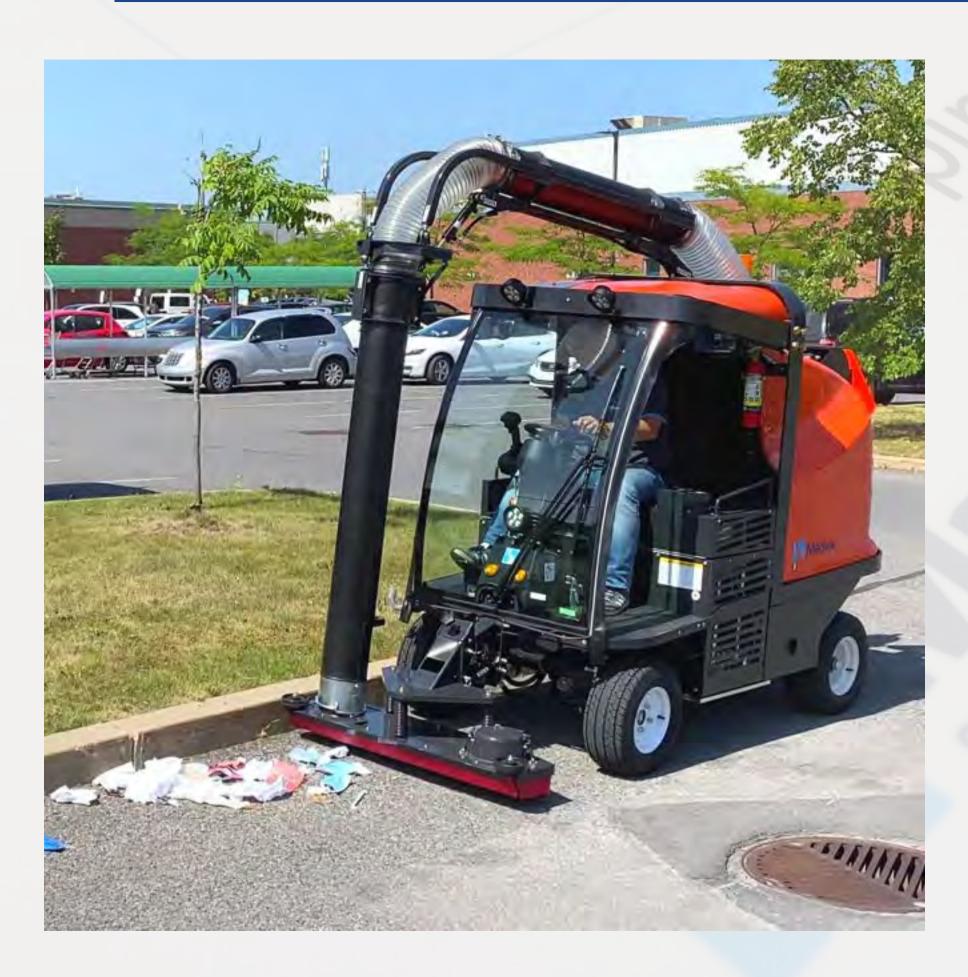




# Engine

- 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)

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## General Machine Performance

up to 84,480 sq. ft. per hour

## Instrumentation & Controls

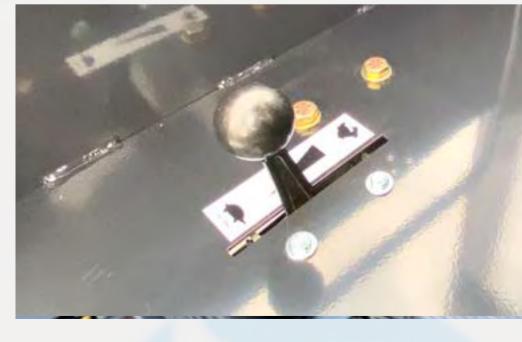






 Turn signal/horn/beacon/work light switch and lever • Fuel gauge • Operator presence indicator Parking brake indicator • Left/right signal indicator • Engine oil pressure indicator • Engine temperature light Hourmeter Glow plug indicator • Hazard light switch Low voltage indicator light (...continued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



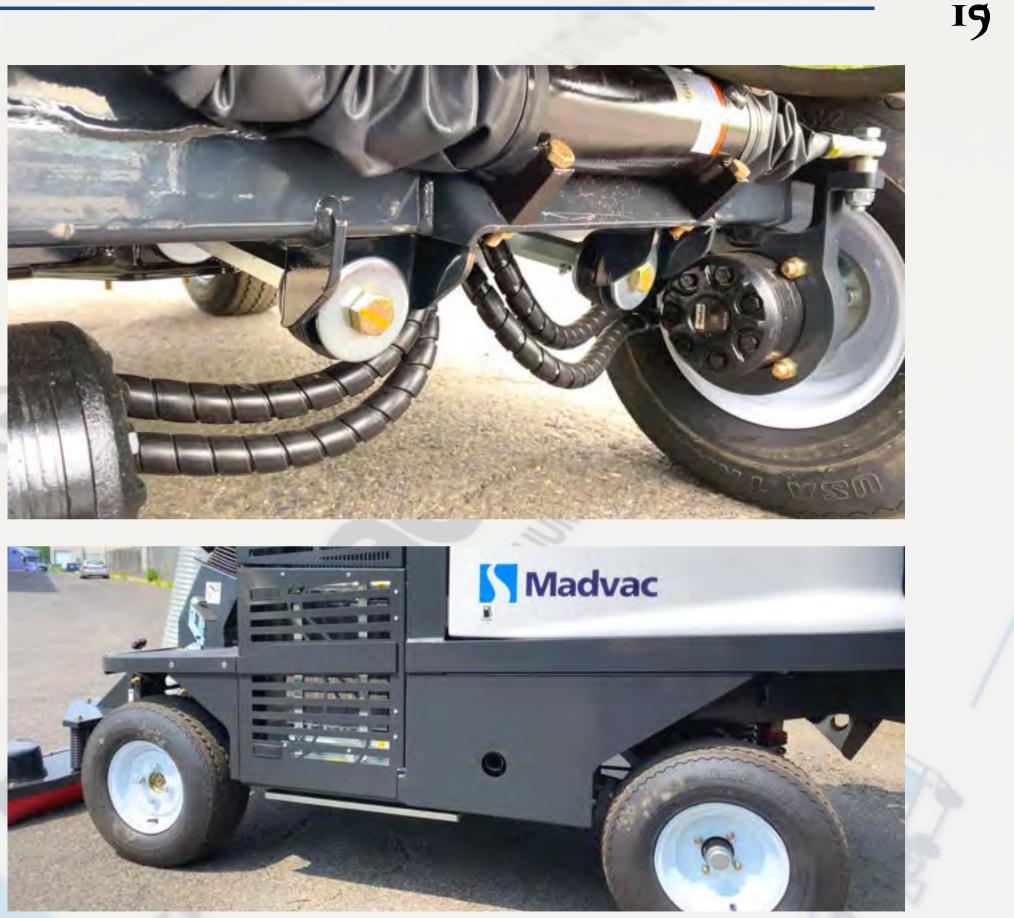


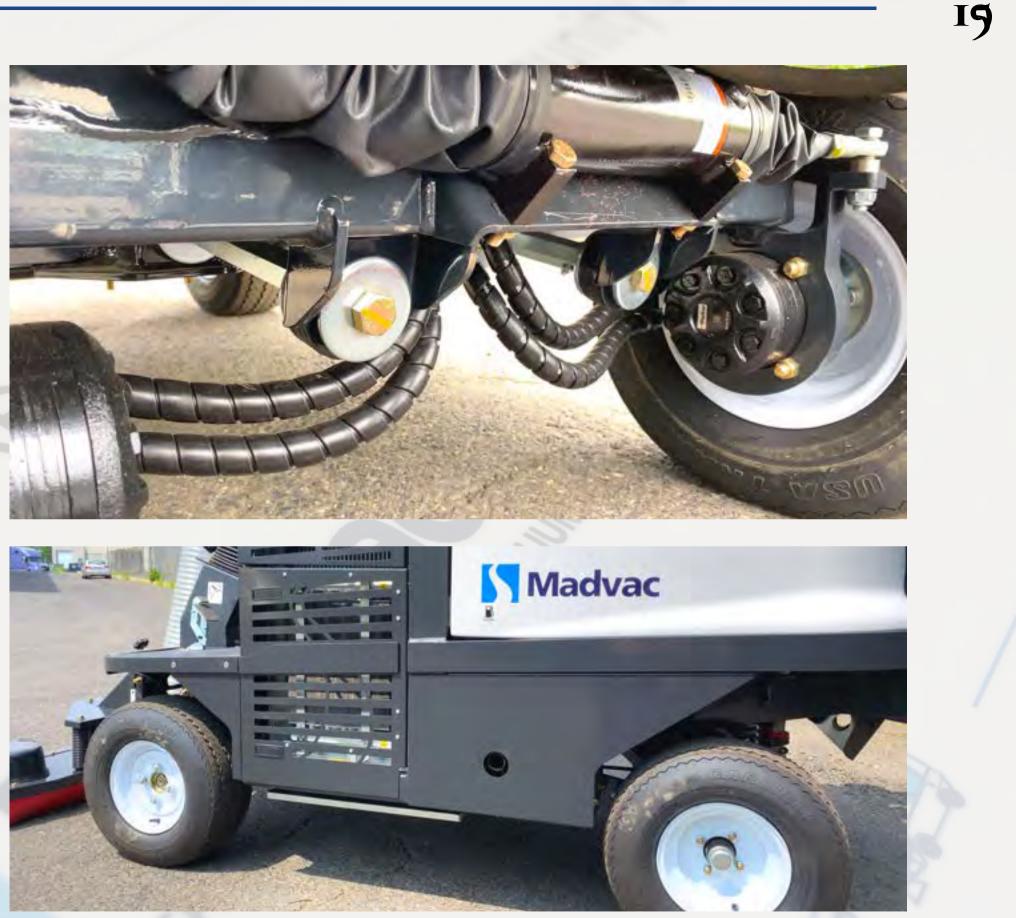
## Instrumentation & Controls

- 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

## 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









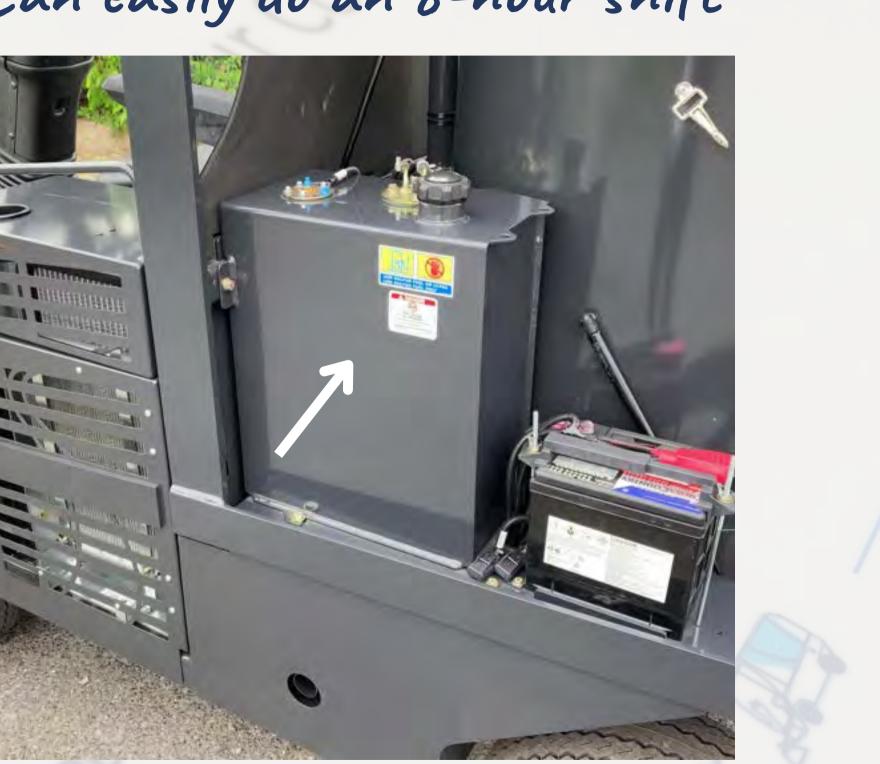
# Lighting

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)





### Capacity: 12.5 gal. (47 L)

# Hydraulic Oil Tank

# Easily accessible with see-through oil level indicator

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DES CHANGEMENTS DE RÉGLAGE



For both the traction and the vacuum systems

### Vacuum fan position: bottom mounted



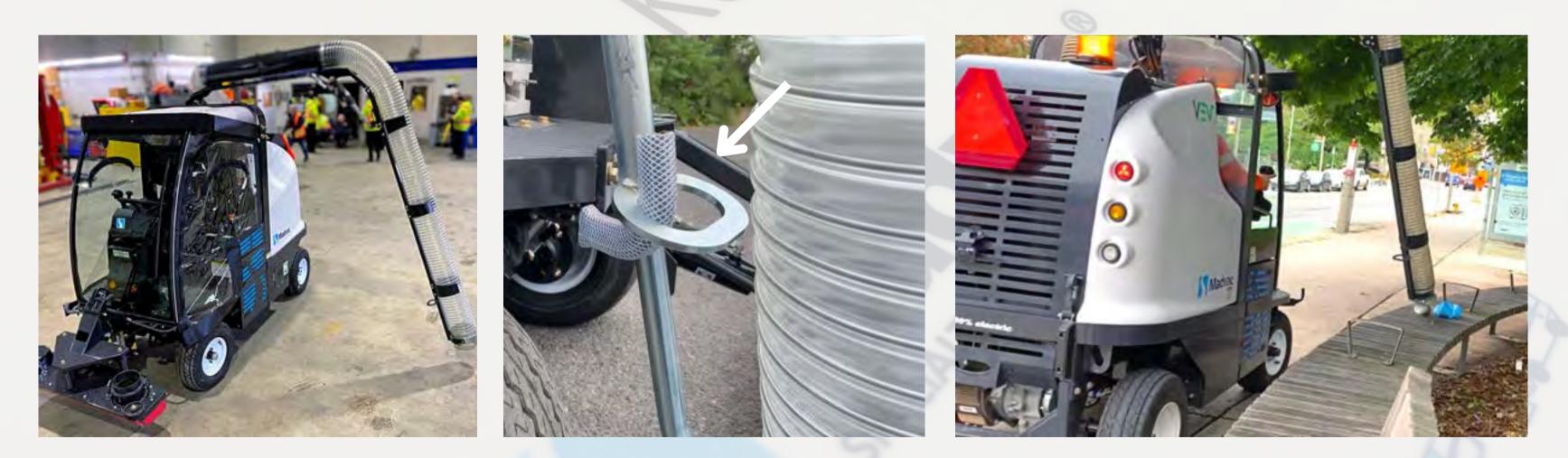
- system compacts litter 2:1 ratio the fan
- Straight-through suction No litter comes in contact with
- Vacuum rating 1800 CFM

Vacuum fan diameter: 14 in. (356 mm)

# Vacuum Fan & Suction System

## Vacuum Hose

- Diameter: 7 in. (178 mm)
- Right-side support for hose storage in transport mode
- 170-degree arm movement with 72 in. (1829 mm.) reach
- Bottom of suction hose maximum lift above ground surface: 52 in. (1321 mm)



### e ch urface: 52 in. (1321 mm)

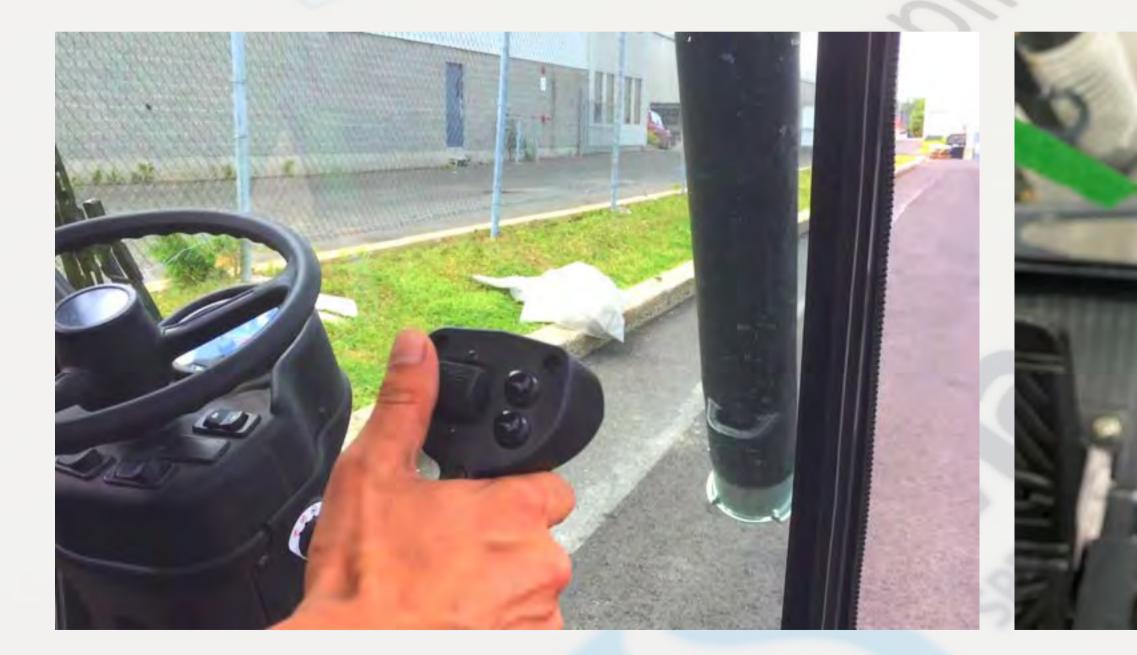
# Vacuum Hose Support Arm

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



## Vacuum Arm Control

Ergonomic 6-position robotic joystick allows effortless displacement of the boom 3 controls on joystick for up / down, and vacuum fan ON, vacuum fan OFF







on each side of cab for excellent rear visibility





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## Rear View Camera

### Optional - in cab 7 in. (178 mm) rear-view camera system with TFT color monitor



2 operating positions : one on each side of vacuum head

### Vacuum Head Optional

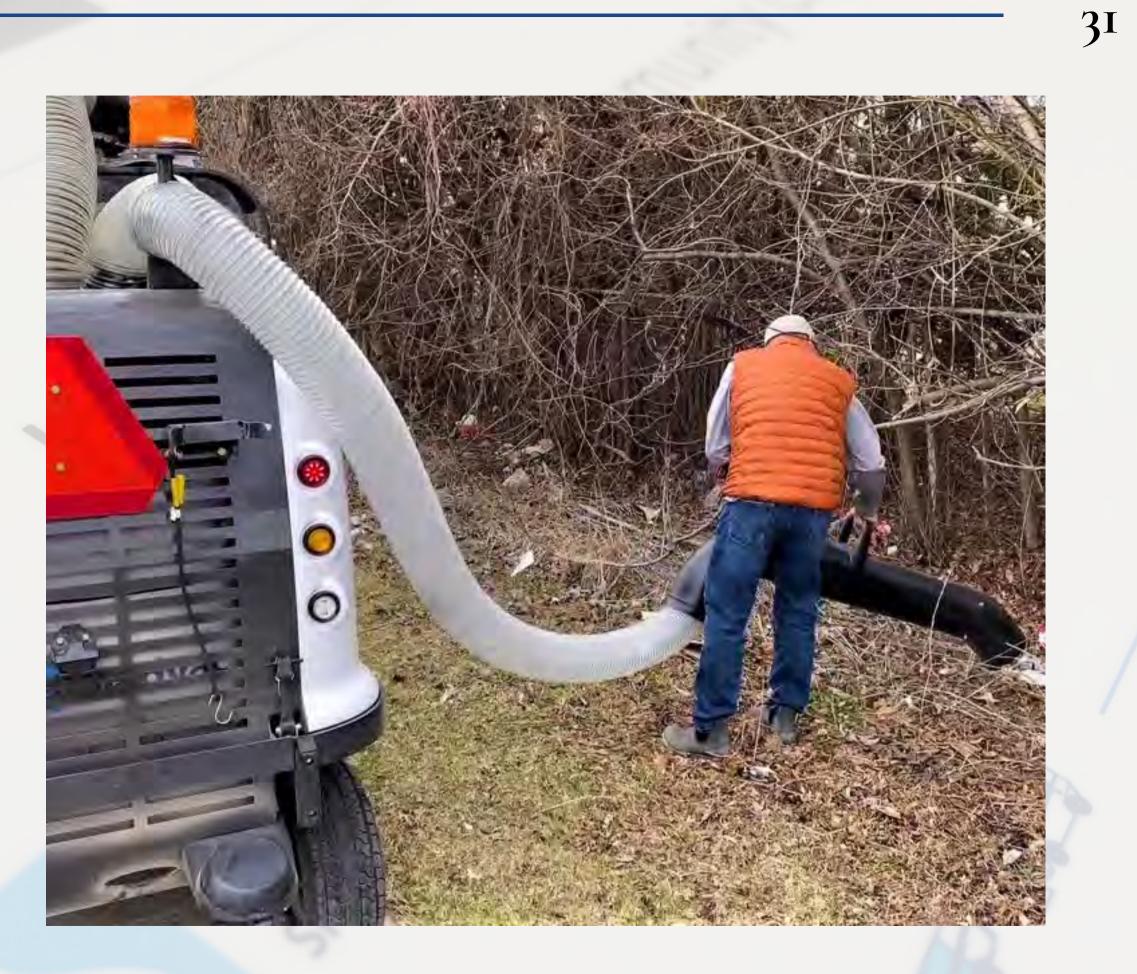
### Effortless vacuuming, simply drive over litter



### Wander Hose Optional

For confined, hard-to-reach areas

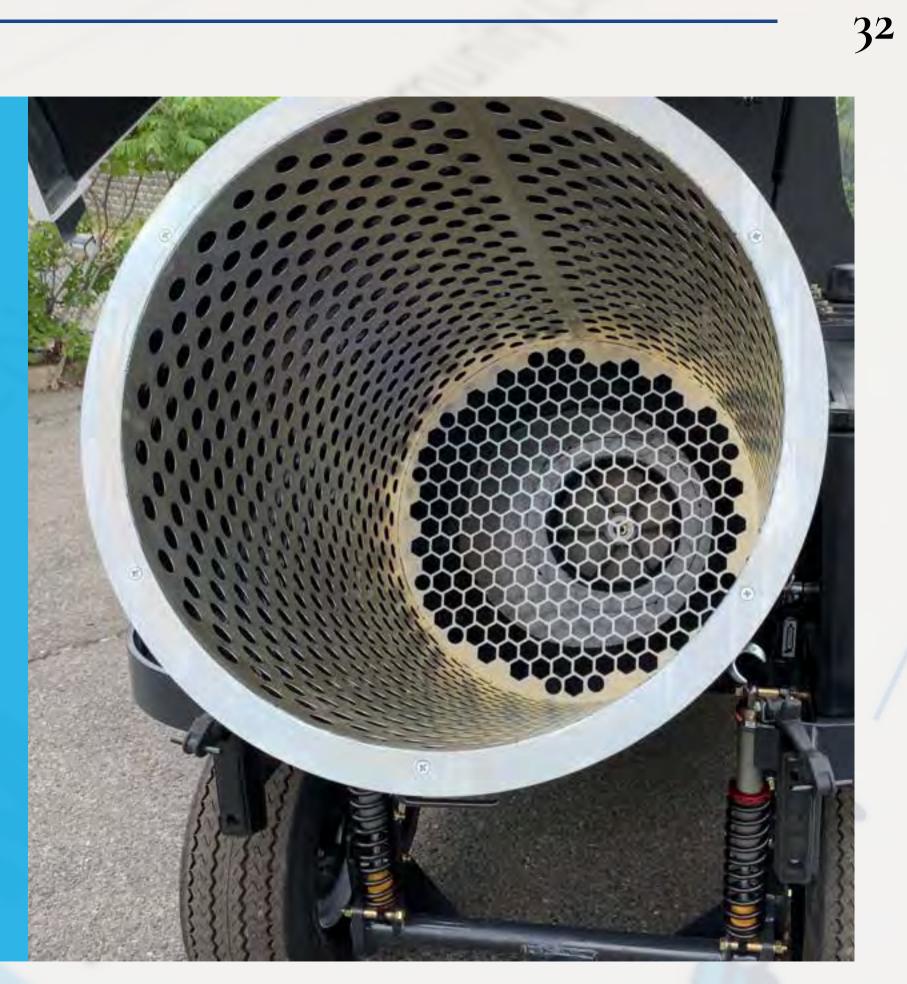
### Length: 15 ft. (4.57 m) Diameter: 6 in. (152 mm)



## 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

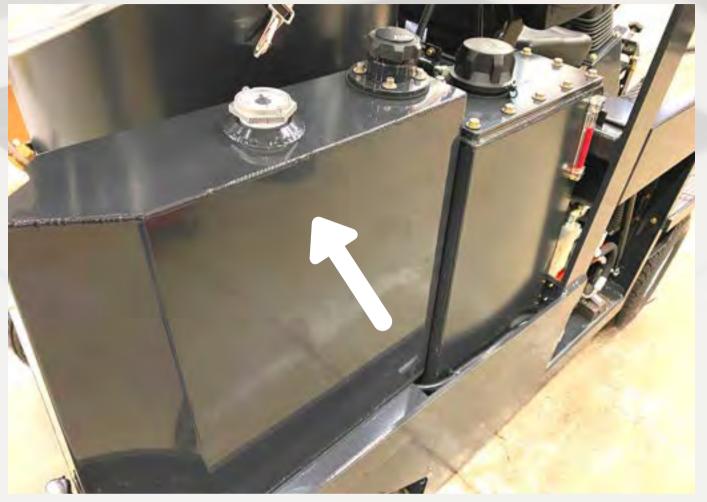


## Dust Control

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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

### Fire extinguisher (optional)

STRUCTION

### R.O.P.S. rollover protection system

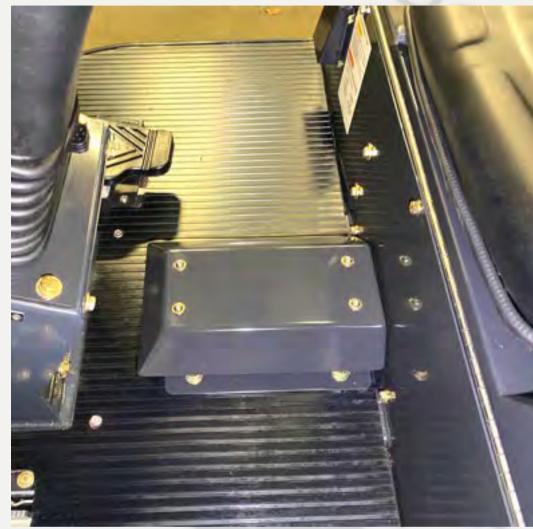


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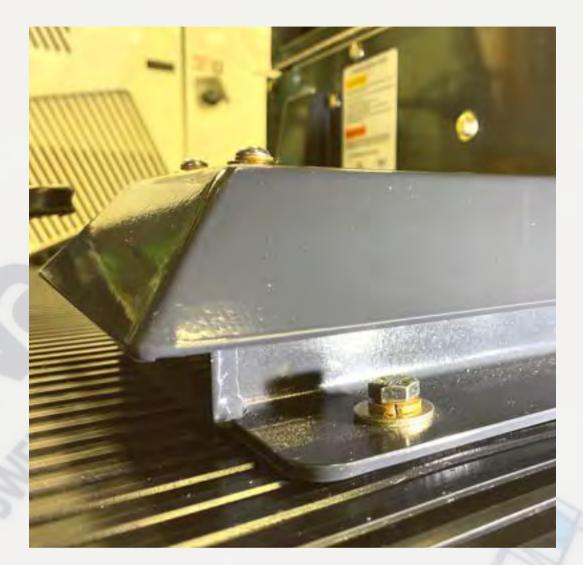
### Emergency stop button





## Foot Heater

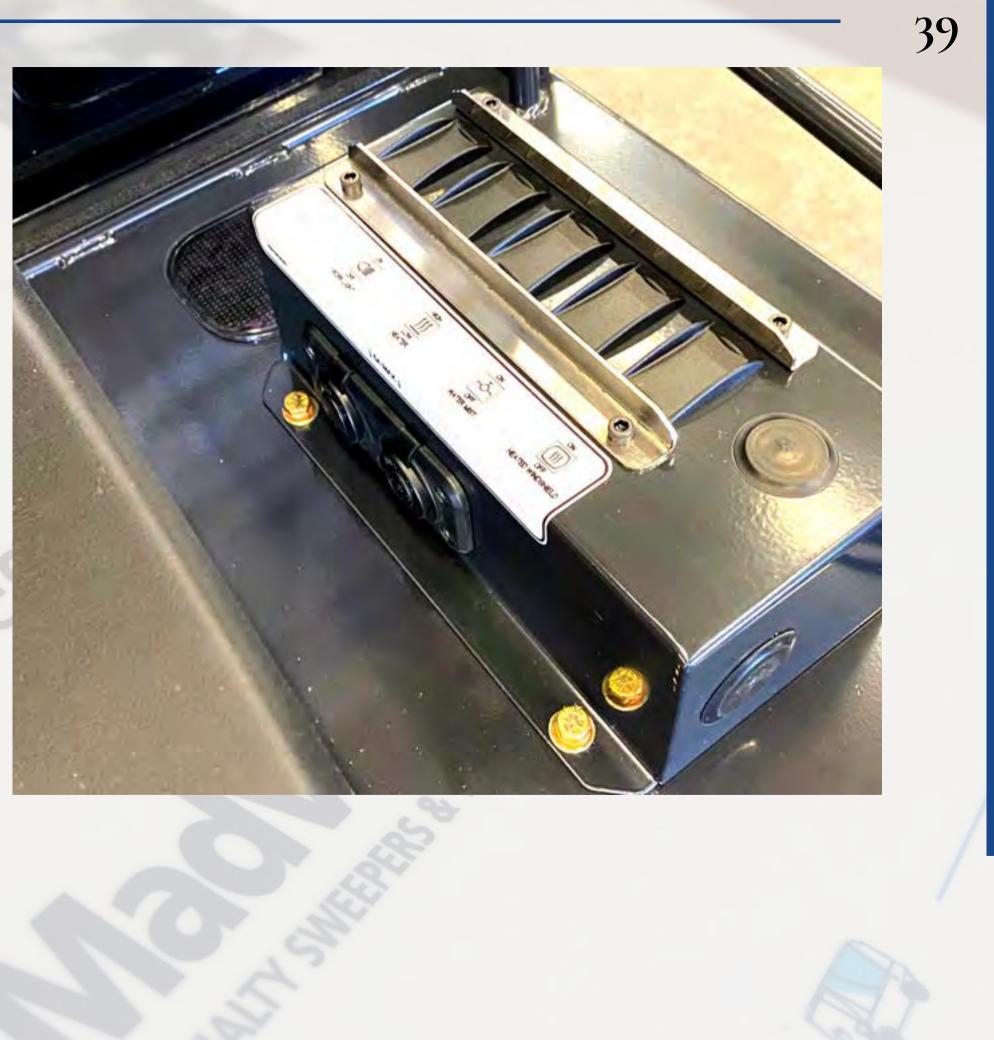
Optional 2-speed floor-mounted heater keeps operator's feet warm during cold weather



# 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



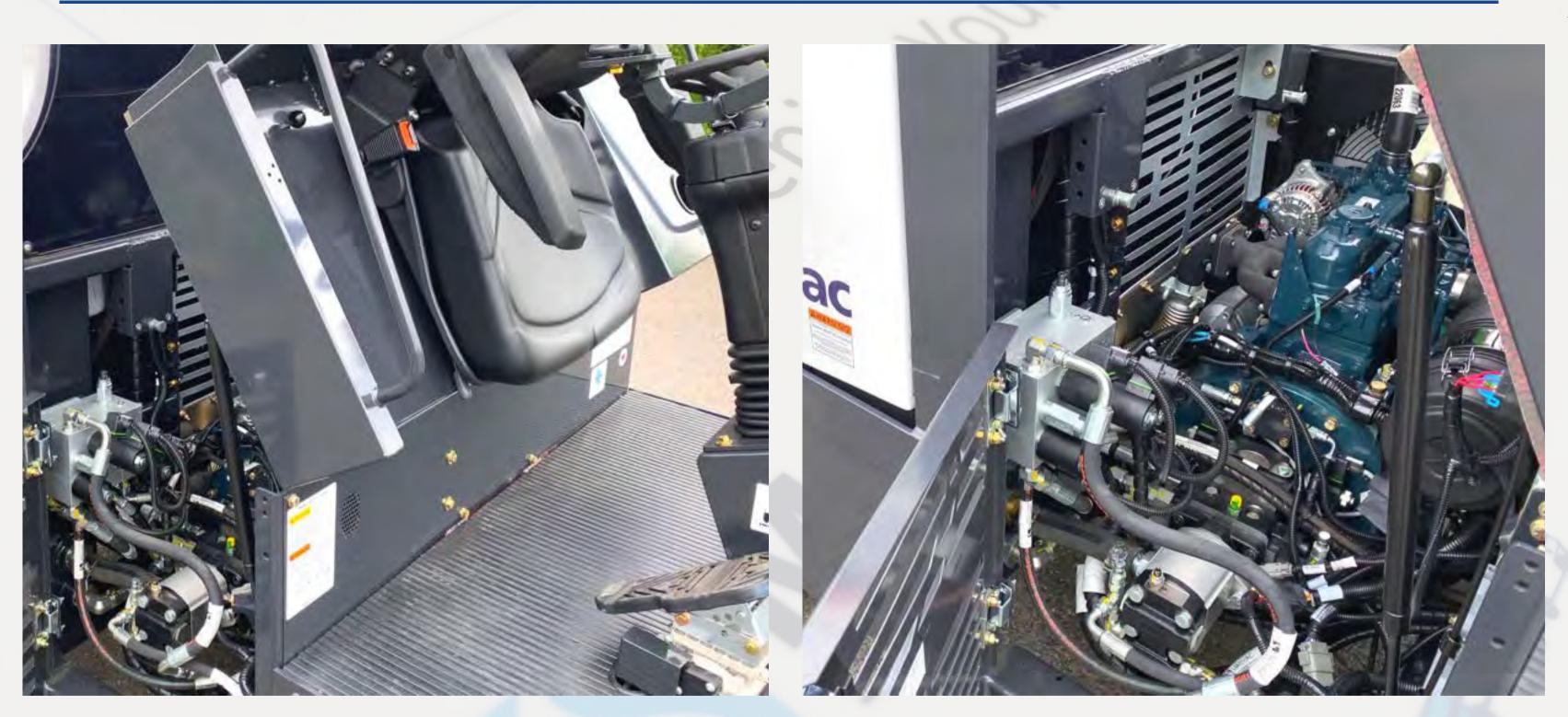
## Convenience

### Broom and rake holder



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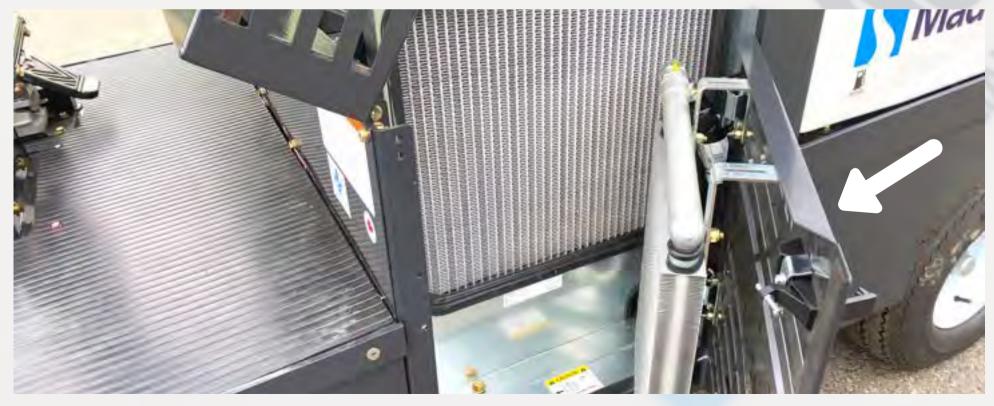
### Tire flat proofing liquid sealant (optional)



Tllt seat for engine compartment

Easy access to all critical components of the machine





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### 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 LR50 diesel all-terrain litter vacuum:



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



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awarded contract vendor #093021-EXP

### Contact

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