

All-Terrain Litter Vacuum

LR50

Product Overview



www.madvac.com

December 2020



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

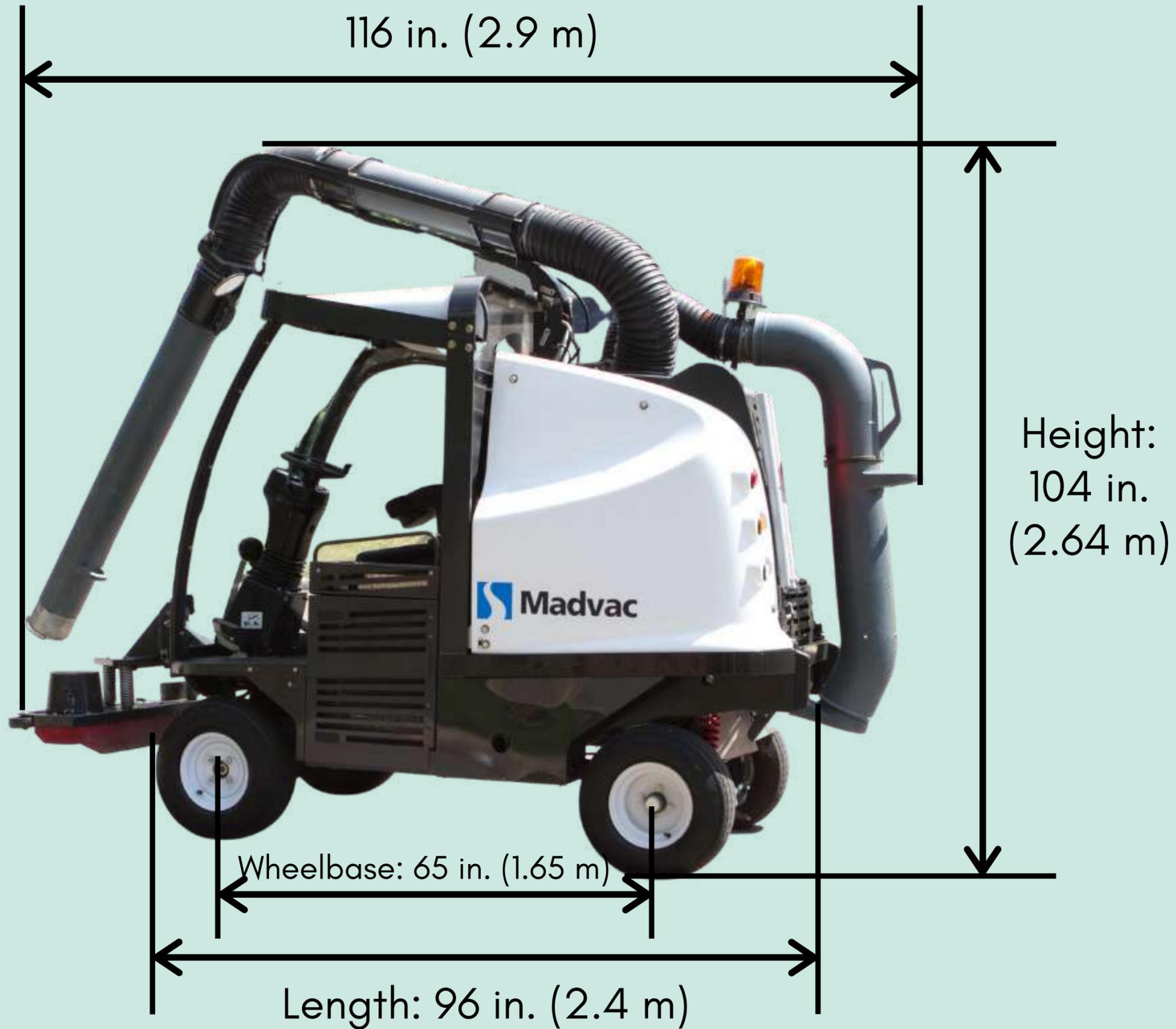


Customers

- 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



Dimensions



Weight

Net/dry weight:
2910 lbs (1320 kg)



Frame/Body



- Heavy gauge steel body on a welded 0.25 in. (6.35 mm) structural steel frame
- Electrostatic powder-coated paint



Cabin

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



Cabin

- Cab size: 68 cu. ft. (1.9 cu. m.)
- Seating height: 42.5 in. (1.08 m) above ground
- Armrest, headrest, and optional cab heater and heated seat for operator comfort

Engine

- Model: Kubota Diesel D1105-E3B (EPA Tier4)
- Engine power: 24.8 hp (18.5 kw) @ 3000 rpm
- Displacement: 68.53 cu.in. (1123 cc)
- Air cleaner: 2-stage Donaldson with restriction indicator





Fuel Tank

Fuel tank capacity:
10.2 gal. (39 L) – 15
hours autonomy



Hydraulic Oil Tank



See-through oil level indicator



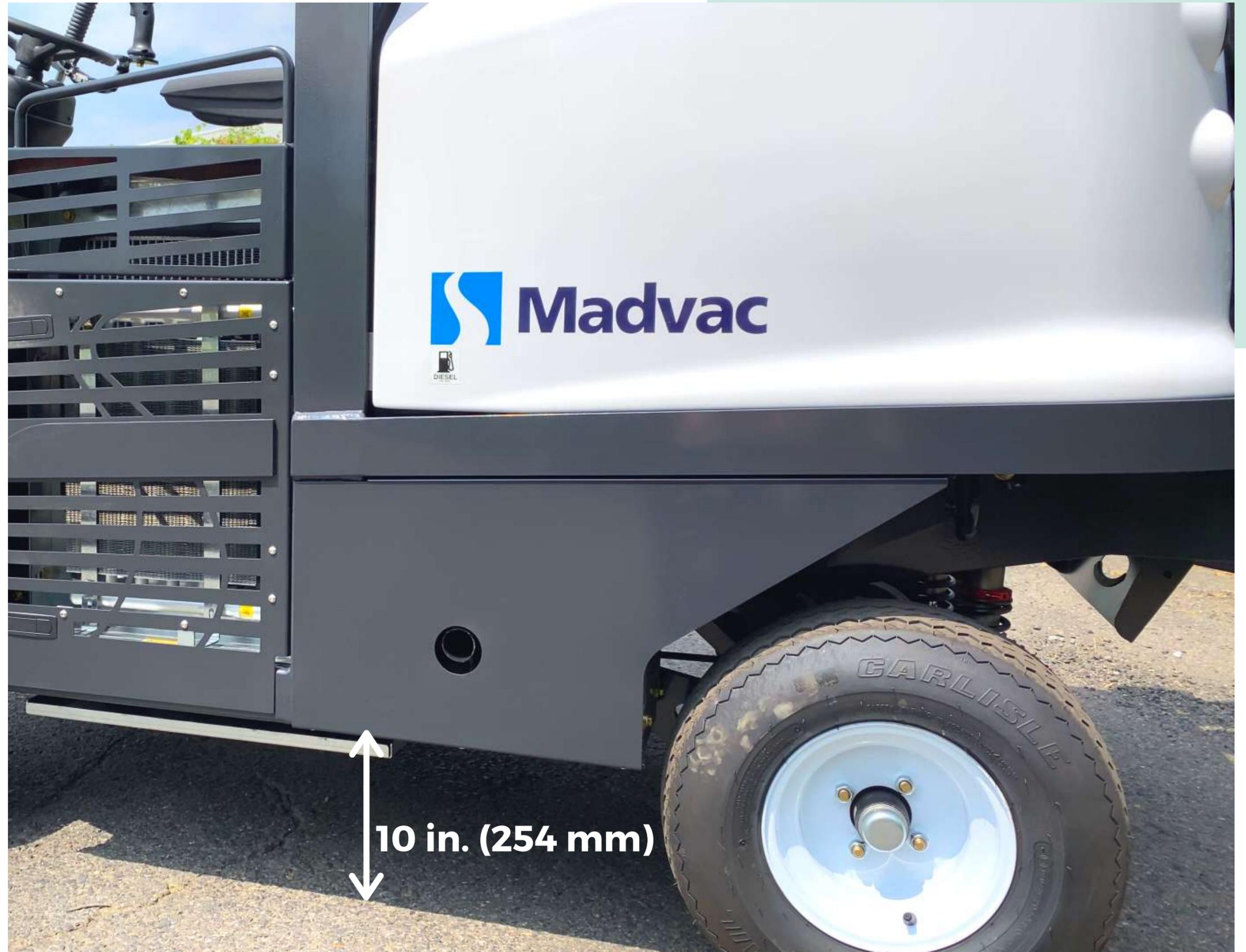
Hydraulic tank with 12.5 gal. (48 L) capacity for both the traction and the vacuum systems



General Machine Performance

- Payload: 150 lb (68 kg)
- Max. forward speed: 12 mph (19 km/h)
- Max. reverse speed: 5 mph (8 km/h)
- Internal turning radius: 25 in. (635 mm)
- Gradeability: 11.3 deg. (20%) with full & empty hopper

- Ground clearance: 10 in. (254 mm)
- Curb climbing: 7 in. (178 mm) tall



Traction

- Front wheel drive with hydrostatic pump and 2 wheel motors
- Brakes: front hydrostatic brake; rear mechanical disc parking brake
- Tires: (all 4 wheels)
 - regular 20.5" (521 mm)
 - turf 20" (508 mm)





Suspension

- Front: multi-layer transverse, beam axle leaf springs with torsion bars
- Rear: heavy-duty shocks and spring

Steering: automotive type, power assisted
Motion control: heavy-duty hydrostatic



Throttle



Single traction pedal



dB Rating



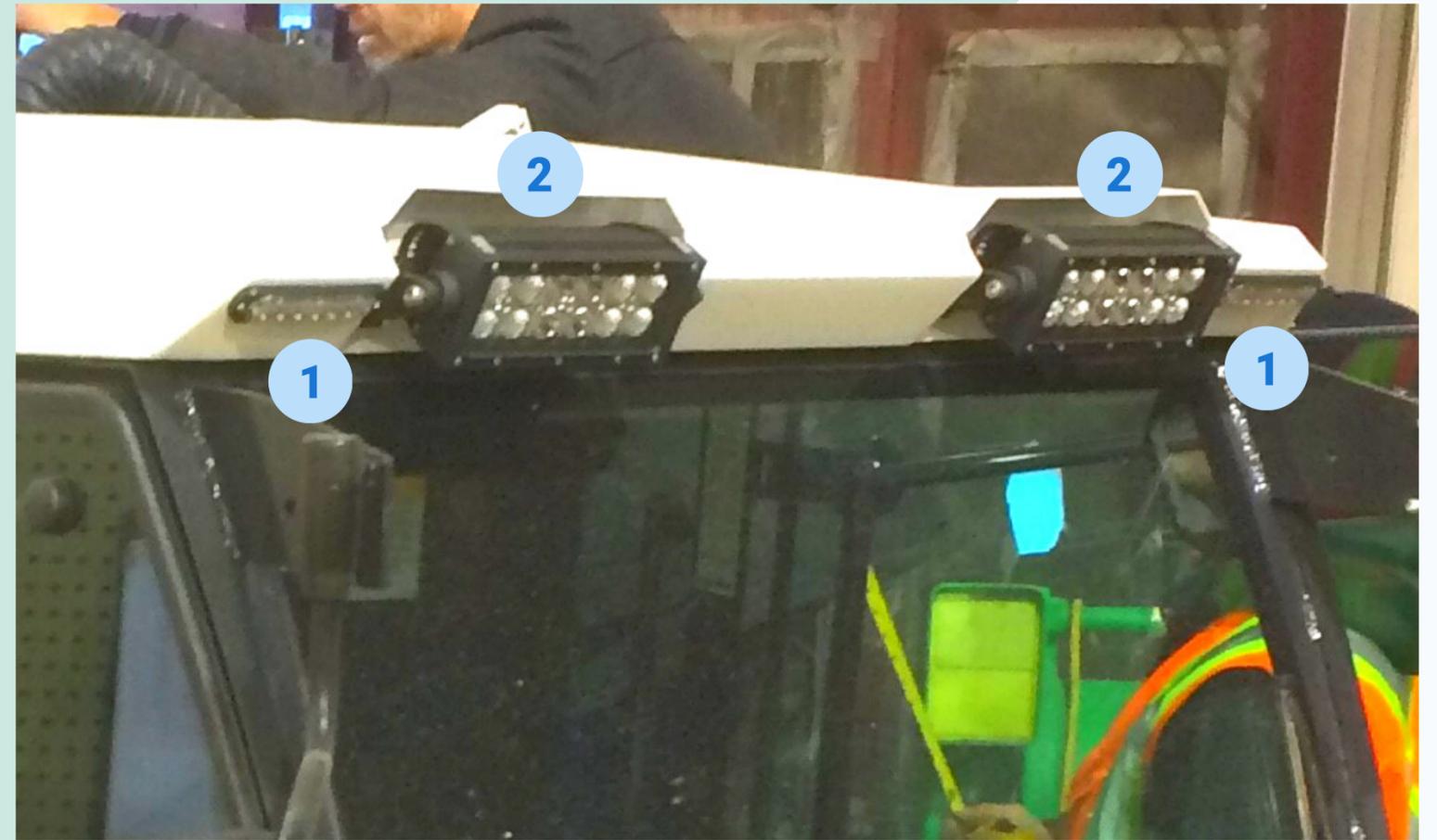
- Cabin: 90 dB
- 5 feet away: 91 dB
- 10 feet away: 87 dB
- 20 feet away: 82 dB

Standard Lighting

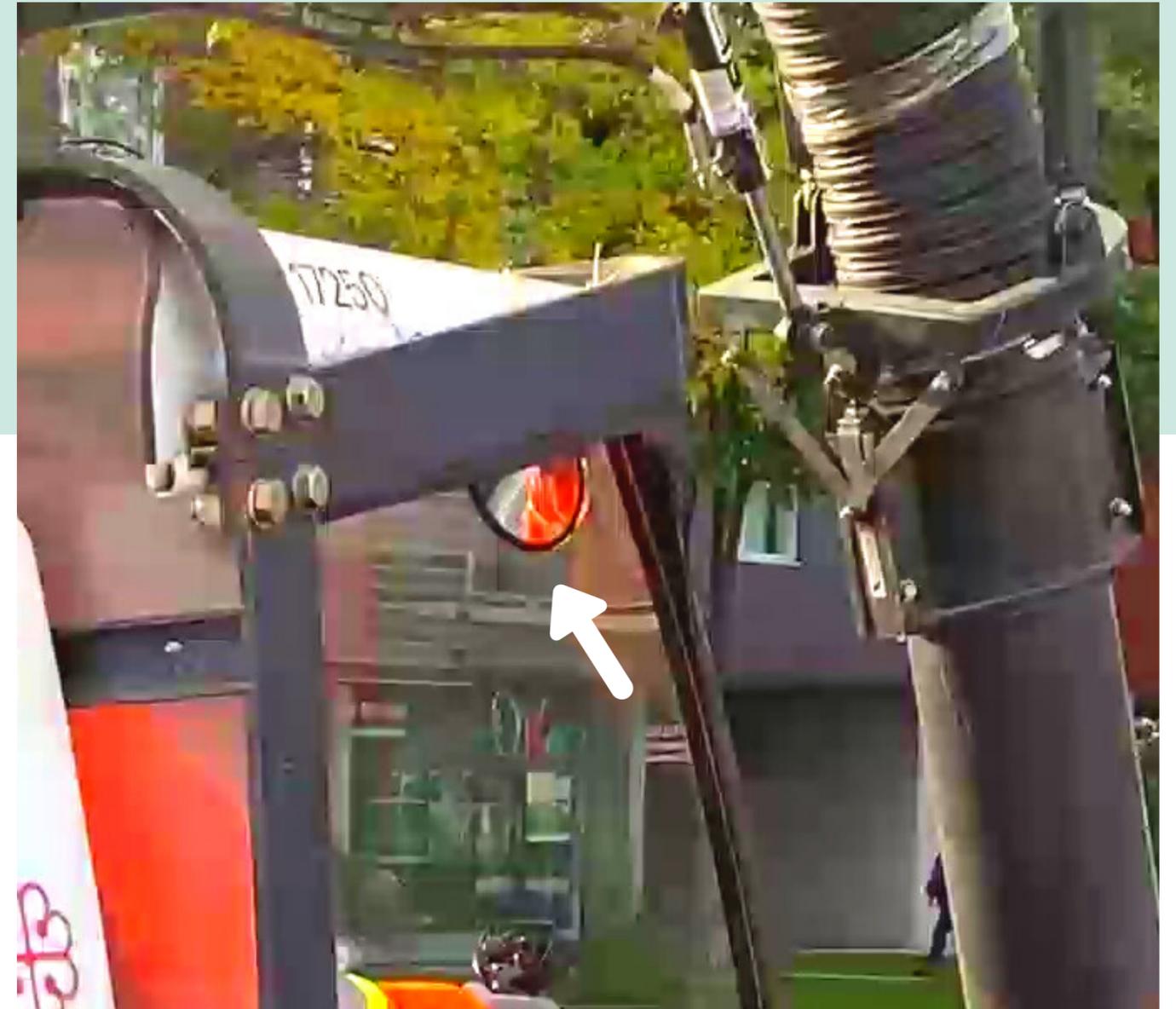
- LED headlight
- LED turn signals
- LED brake lights
- LED flashers
- LED backup lights
- Back up alarm
- License plate holder with light
- SMV emblem
- Strobe beacon



Optional Lighting



- 1 Airport lights
- 2 Front work lights
- 3 Front strobe light



Rear-View Vision

Two convex mirrors mounted on each side of cab

Rear-View Camera

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

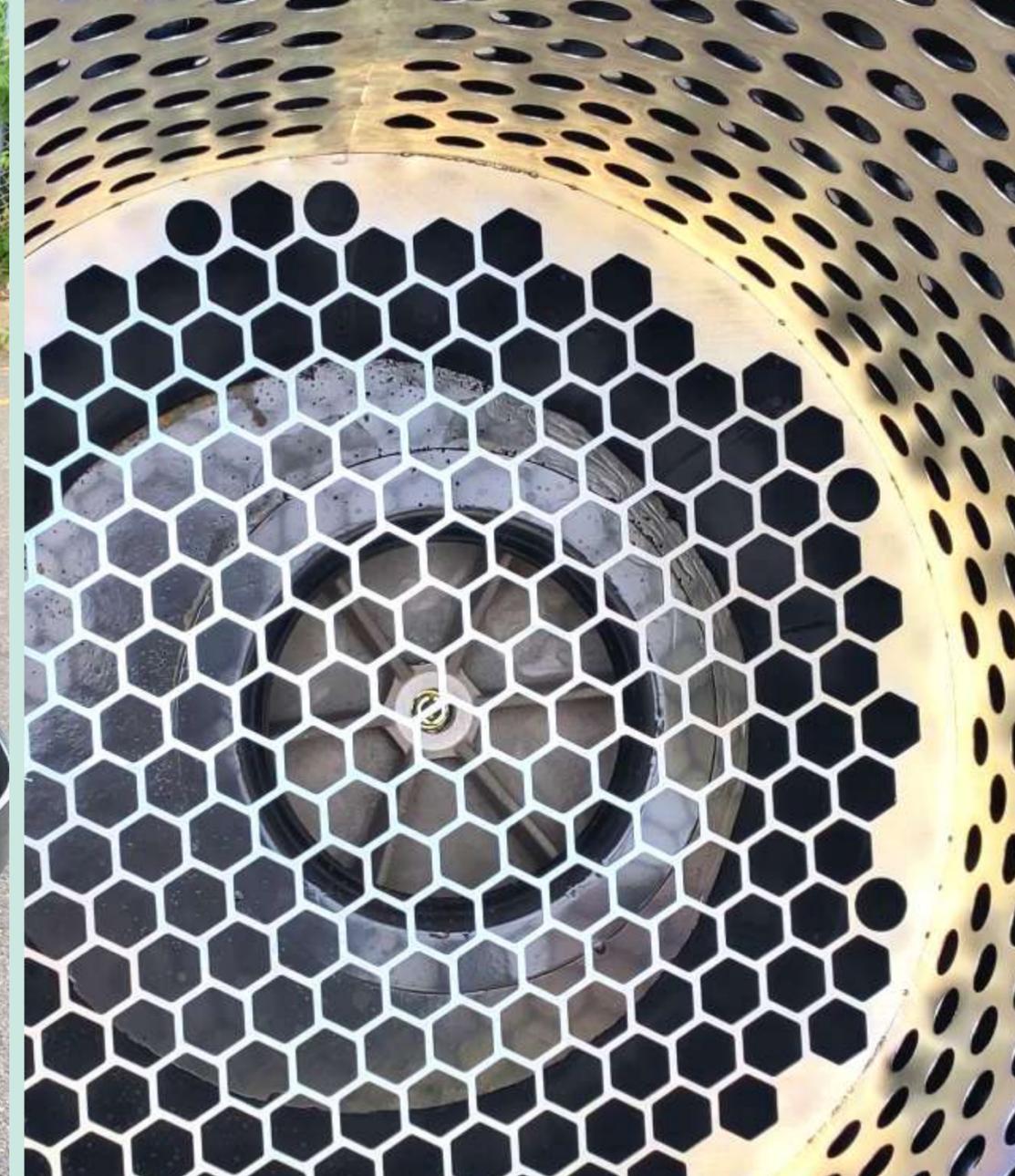


Vacuum Fan & Suction System

- Vacuum rating:
2200 CFM
- Straight-through
suction system
compacts litter 2:1 ratio
- No litter comes in
contact with the fan



Vacuum fan position:
bottom mounted



Vacuum fan diameter:
14 in. (365 mm)

Vacuum Hose

- 8 in. (203 mm) diameter joystick controlled hose
- 270-degree arm movement with 24 sq. ft. (2.2 m³) working area





Madvac

Vacuum Hose Support Arm

For operator safety and easier displacement of the boom





Rubber Vacuum Hose Upgrade

Optional heavy duty black 8 in.
(203 mm) diameter vacuum
hose upgrade - greater
resistance to tree branches and
other sharp objects that can
damage or perforate the hose

Vacuum Arm Control

Ergonomic 6-position robotic joystick allows effortless displacement of the boom



Vacuum Head

(optional)



- Width: 48 in. (1.2 m)
- 2 operating positions with one on each side of the vacuum head
- Offers effortless vacuuming, simply drive over litter





Wander Hose

(optional)

- Length: 15 ft. (4.57 m)
- Diameter: 6 in. (152 mm)
- For additional cleaning or hard-to-reach areas

Container

- 16-gauge powder-coated steel container
- Total volume capacity: 100-120 gal. (378-454 L)
- Total weight capacity: 300 lbs (136 kg)





Litter Bags

- Primary polypropylene fiber filter litter collection bags
- Size: 42 in. X 51 in. (1066 mm X 1295 mm)
- One container, one bag for easier bag changing process that takes only 45 seconds

Bagless Debris System: Kevlar Bin



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

PN 63271
REPLACEMENT COLLECTOR BAG
OVERSIZE CONTAINER



Dust Control

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



NEW



Dust Control

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





Instrument Panel

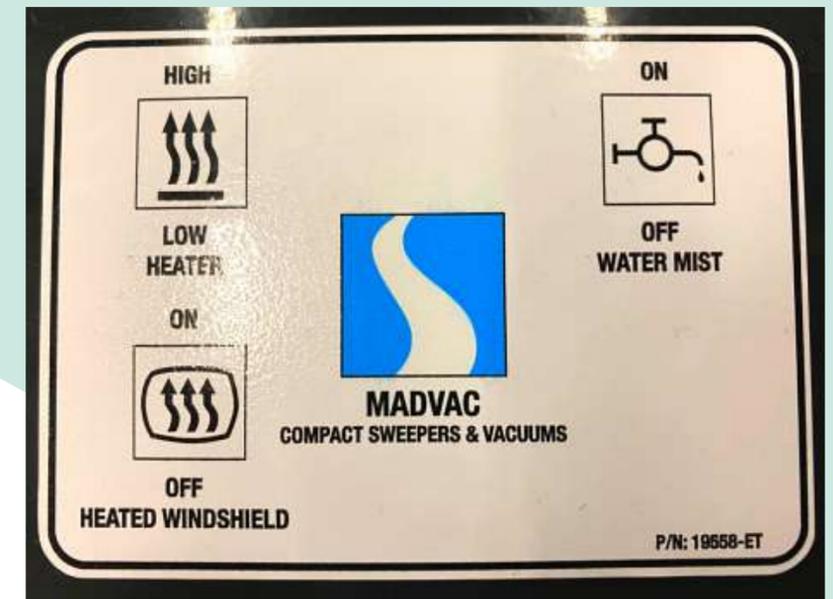


- Turn signal/ horn/ beacon/ work light switch and lever
- Fuel gauge
- Operator presence indicator
- Parking brake indicator
- Left signal indicator
- Right signal indicator
- Engine oil pressure indicator
- Alternator indicator
- Engine temperature light
- Hourmeter
- Glow plug indicator
- Hazard light switch



Console Accessory Box

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



New standard feature (Nov. 2020)

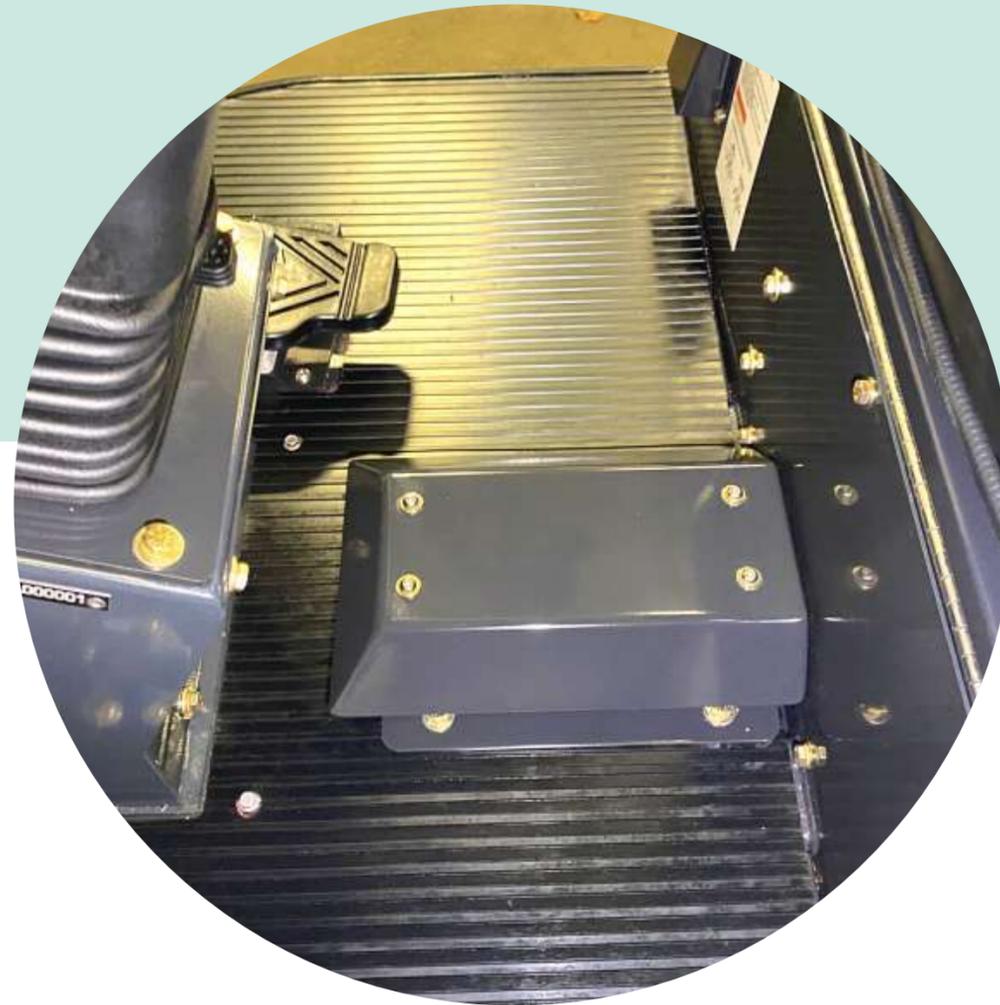


Cell Phone Holder

Cellphone adhesive surface prevents phone from moving or falling

New standard feature (Nov. 2020)

Foot Heater



Optional 3-way floor-mounted heater keeps operator's feet warm during cold weather

NEW

Fan for Operator Comfort

(optional)





Foot Activated Horn

Optional foot activated horn gives operator more ease and convenience than pressing the turn signal lever

Safety



R.O.P.S - roll over protection system



Fire extinguisher 2.2 lb dry powder (optional)



Emergency stop button



Foot Step

Helps operator climb on board easily and safely

New standard feature (Nov. 2020)



License Plate Holder

Convenience



**Broom and
rake holder (optional)**



**Water-proof storage
compartment**



**Tire flat proofing -
liquid sealant (optional)**



*Easy access to all
critical components
of the machine*



**Hinged side door
and tilt seat for
engine access**

Easy access to all
critical components
of the machine



Hinged side door for
oil cooler and
radiator access





To schedule a demo, request a quote, or for more information on the LR50 all-terrain litter vacuum:



855-651-0444 (USA/Canada)
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www.madvac.com



Sourcewell 
Awarded Contract