



July 2022

Madvac[®]

All-Terrain Litter Vacuum

LR50 (diesel)

Product Overview

www.madvac.com

Sourcewell[®]
Formerly NJPA

 **canoe**
procurement group of canada

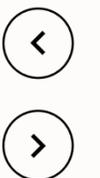




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Technical specs are subject to change without prior notice



Applications

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

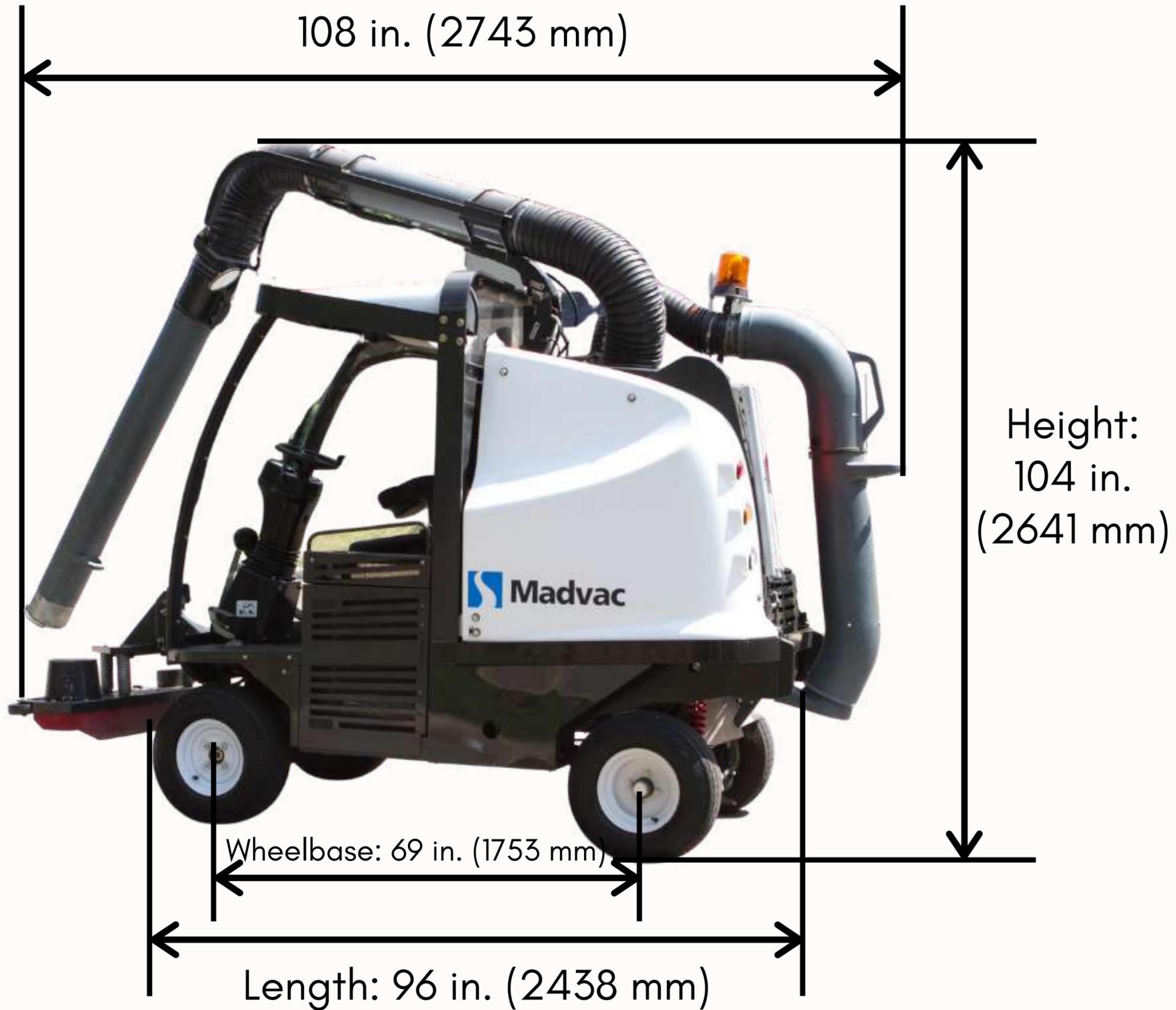


Customers

- 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



- Ground clearance: 10 in. (254 mm)
- 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)



Frame/Body



- Heavy gauge steel body on a welded 1/4 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: 48 cu. ft. (1.36 cu. m.)
- Seating height: 40.5 in. (1029 mm) above ground
- Armrest, headrest, and heated seat (optional) for operator comfort

Engine

- Model: Kubota Diesel D1105-E4B (EPA Tier 4 Final)
- Engine power: 24.8 hp (18.5 kw) @ 3200 rpm
- Displacement: 68.53 cu.in. (1123 cc)
- Air cleaner: 2-stage Donaldson with restriction indicator





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)
- Gradeability: 11.3 deg. (20%) with full & empty hopper
- Cleaning speed: up to 84,480 sq. ft. per hour

Instrument Panel



- 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
- 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
- Lever and cable for engine throttle control

Steering: power assisted
Motion control: heavy-duty hydrostatic



Throttle



Single traction pedal

Traction

- Drive: front wheel drive
- 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

- Front: leaf spring
- Rear: leaf spring



dB Rating

Front decibel

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

Standard Lighting

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



Fuel Tank



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



Hydraulic Oil Tank



See-through oil level indicator



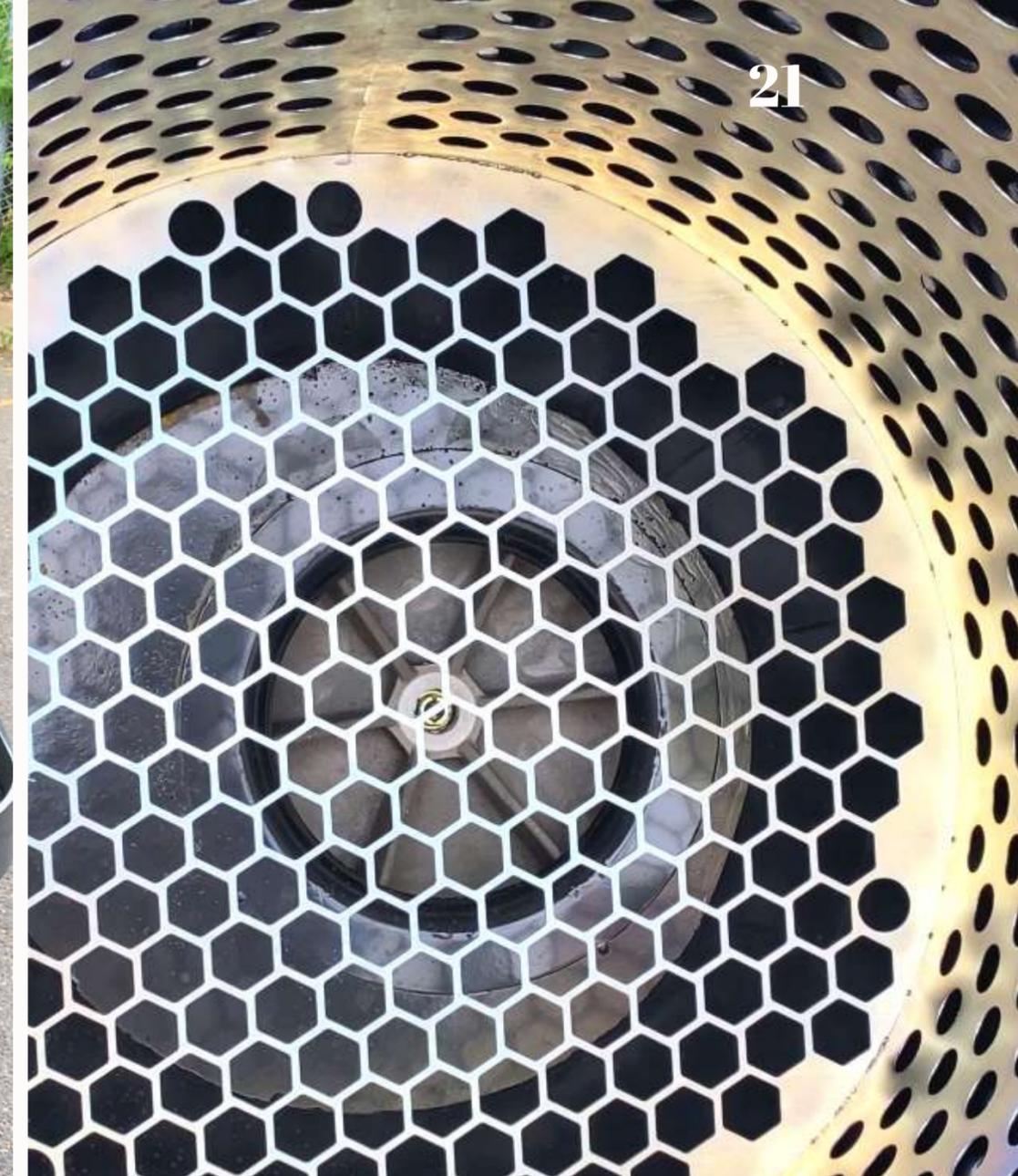
Hydraulic tank with 12.5 gal. (48 L) capacity for both the traction and the vacuum systems

Vacuum Fan & Suction System

- Vacuum rating:
1600 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

- 7 in. (178 mm) diameter joystick controlled hose
- 270-degree arm movement with 24 sq. ft. (2.2 m³) working area



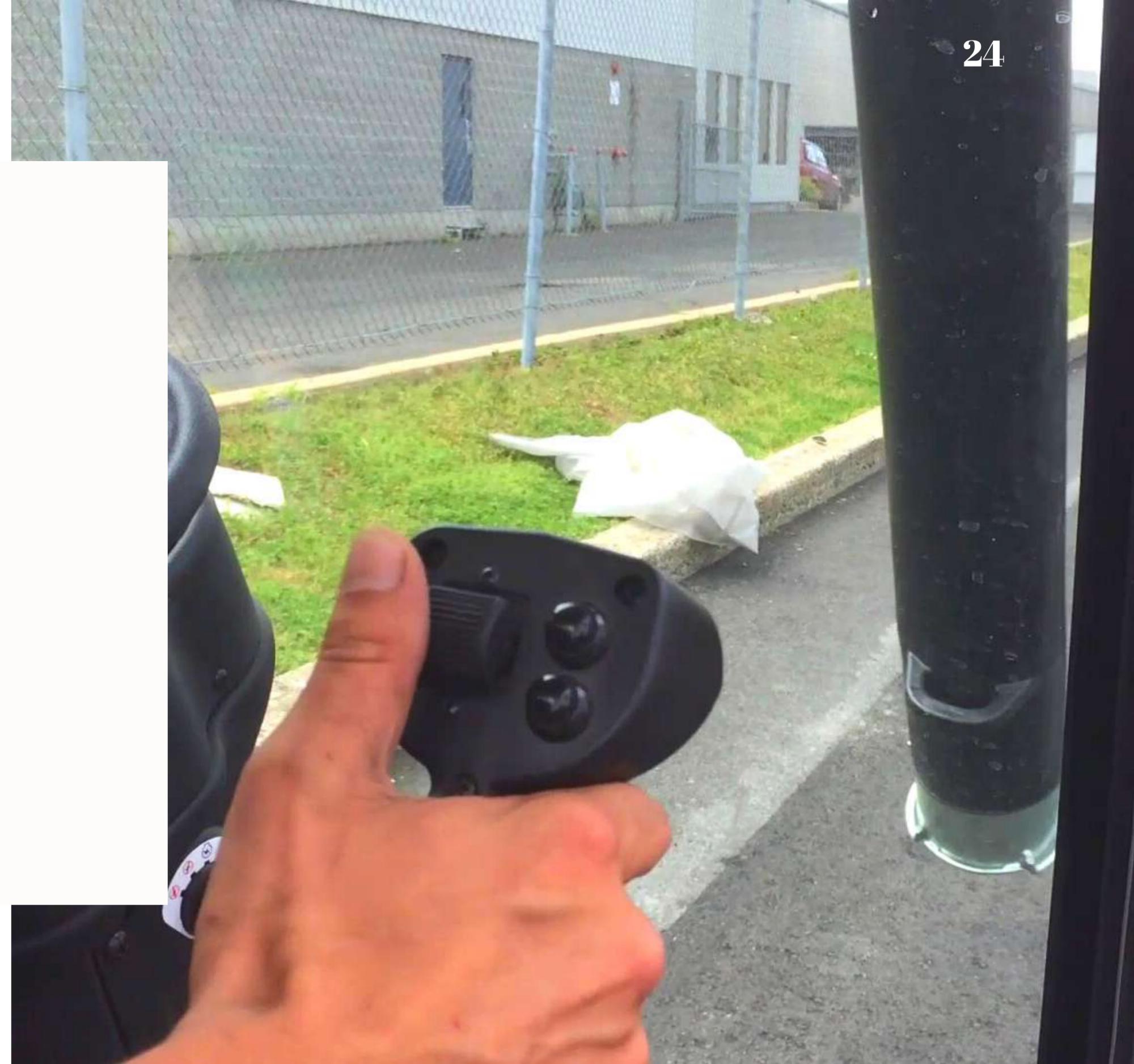


Vacuum Hose Support Arm

For operator safety and easier displacement of the boom

Vacuum Arm Control

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





Rear-View Vision

Two convex mirrors mounted
on each side of cab

Vacuum Head

(optional)



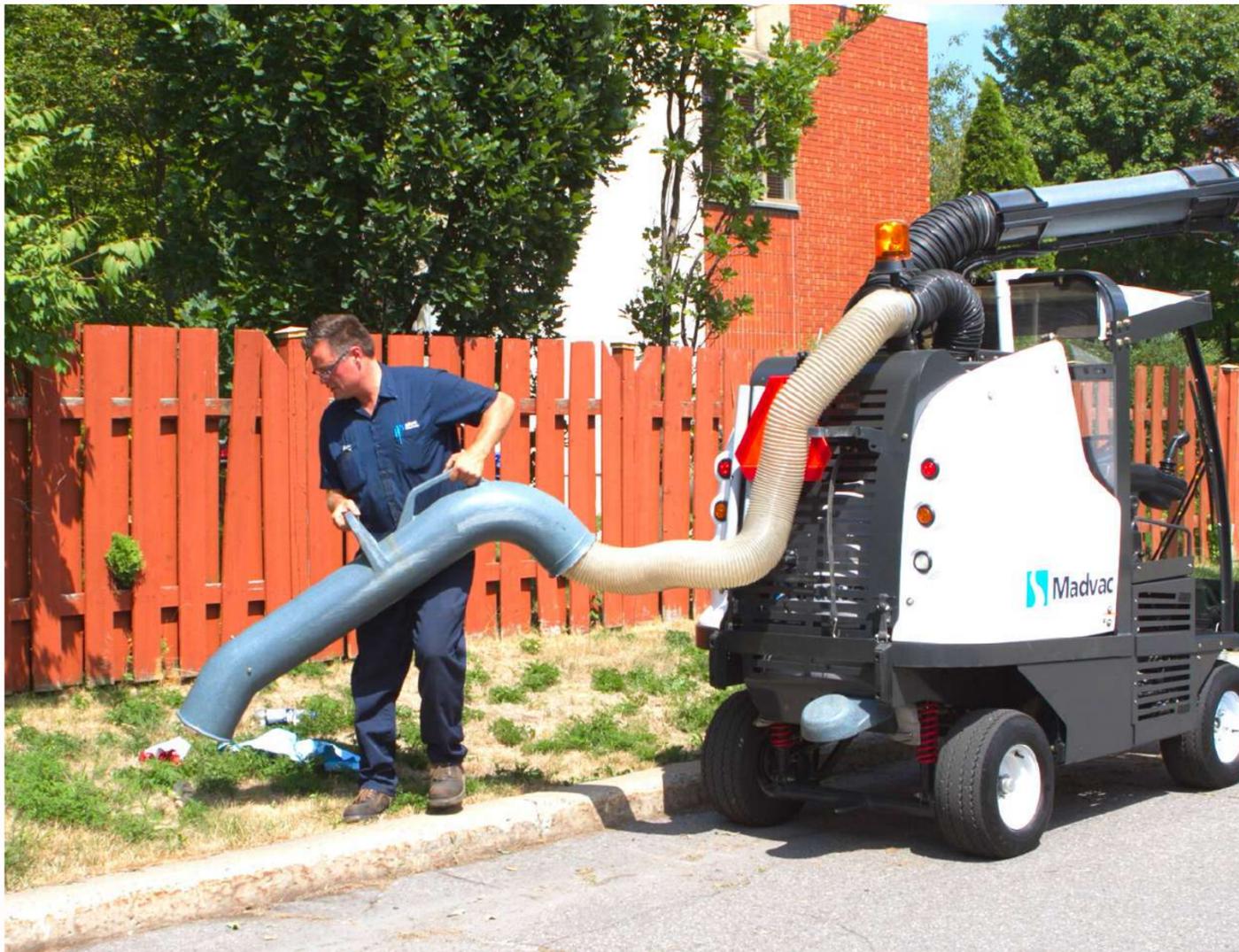
- Width: 48 in. (1219 mm)
- 2 operating positions with one on each side of the vacuum head
- Offers effortless vacuuming, simply drive over litter



Wander Hose

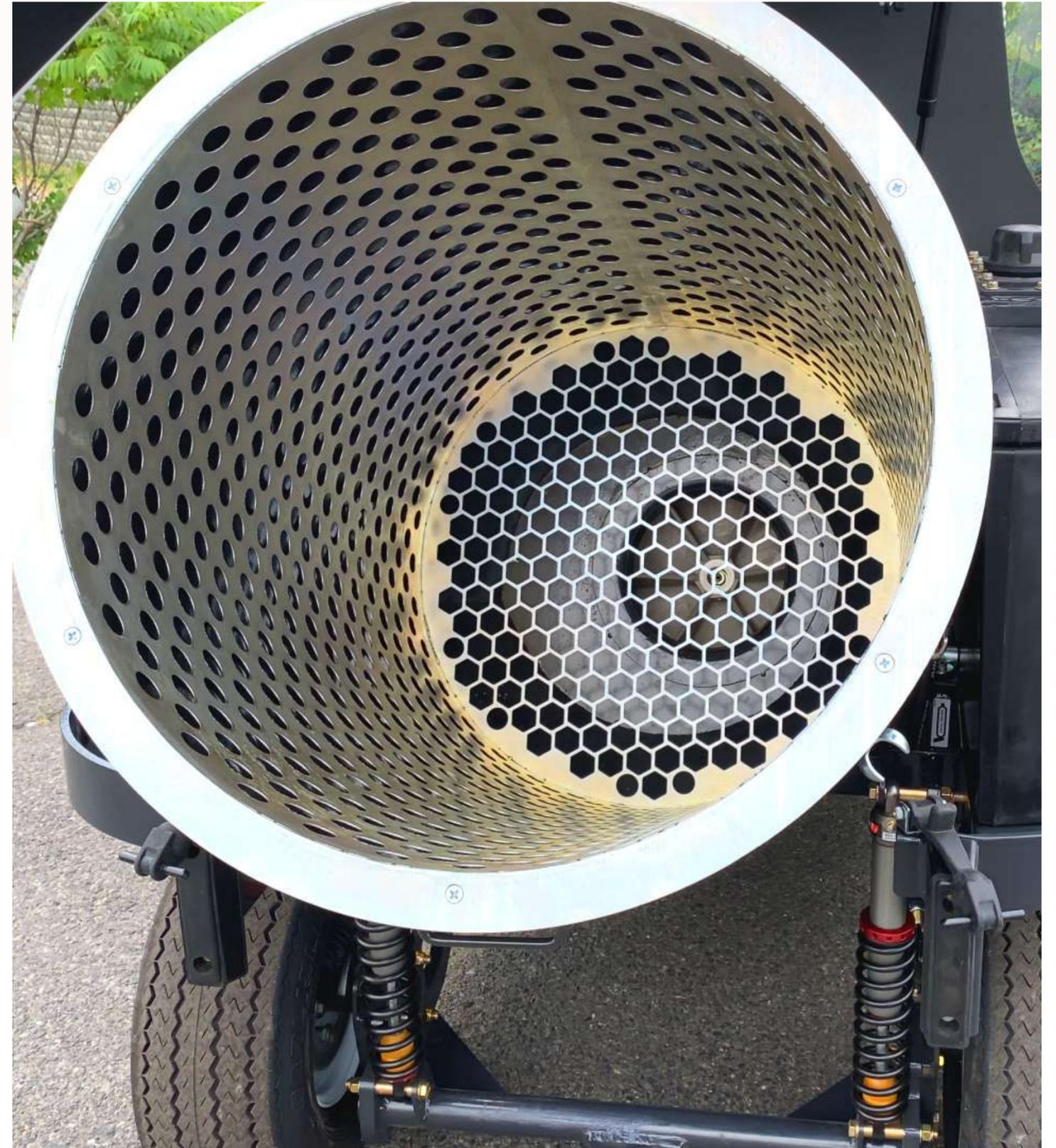
(optional)

- 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
- Litter capacity:
 - Volume: 75 gal. (284 L)
 - Weight: 150 lbs (68 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

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 reduces risk of cigarette butt fire inside the container



Safety



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



Fire extinguisher 2.2 lb dry powder (optional)



Emergency stop button

Rear-View Camera

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





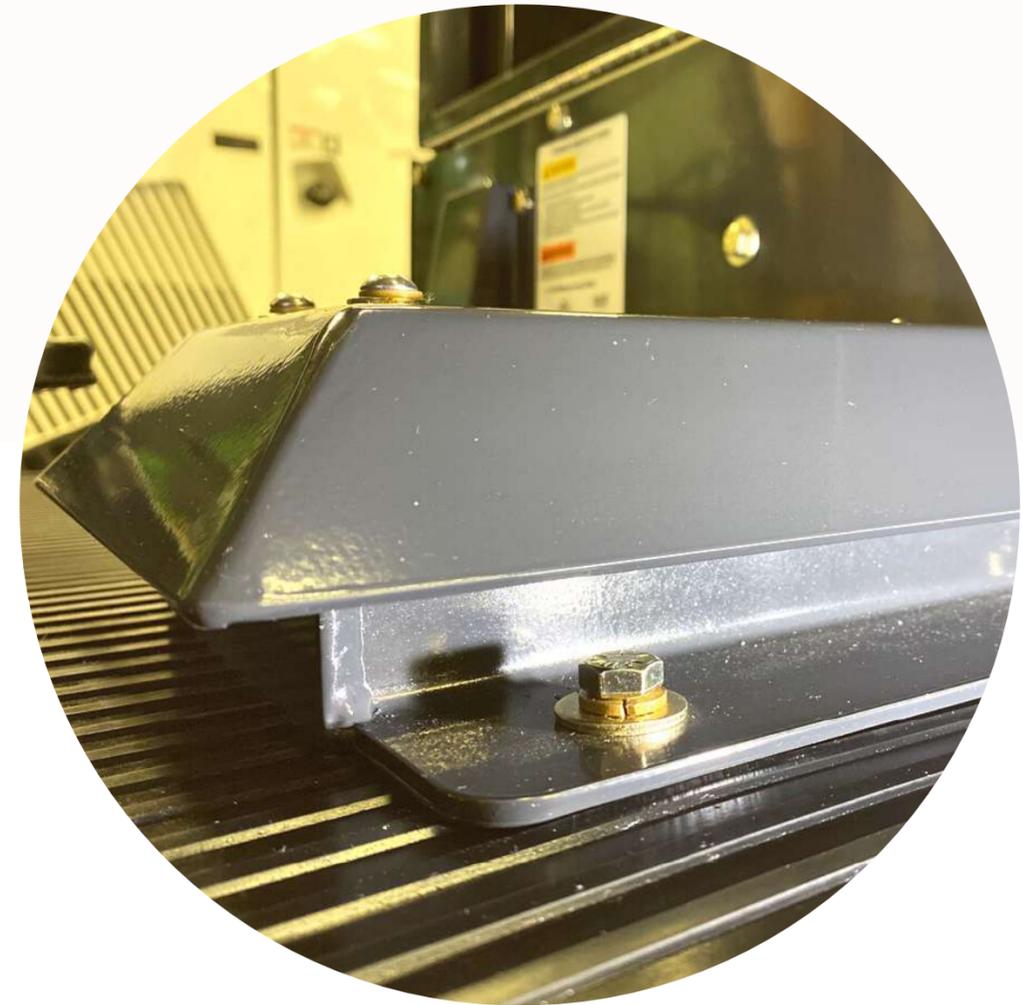
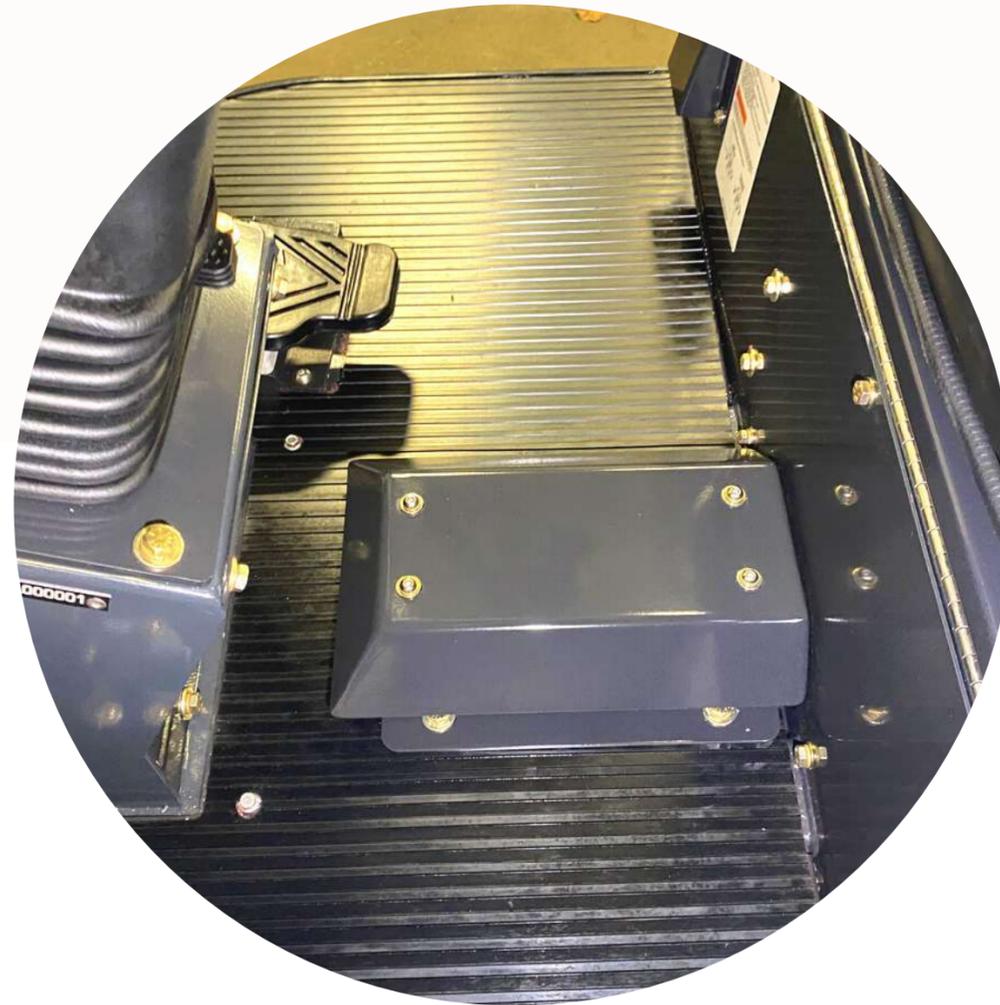
Foot Step

Helps operator climb on board easily and safely

New standard feature (Nov. 2020)



Floor-Mounted Cab Heater



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

NEW



Foot Activated Horn

Gives operator more ease and convenience than pressing the turn signal lever

Fan for Operator Comfort

(optional)



Convenience



**Broom and
rake holder**



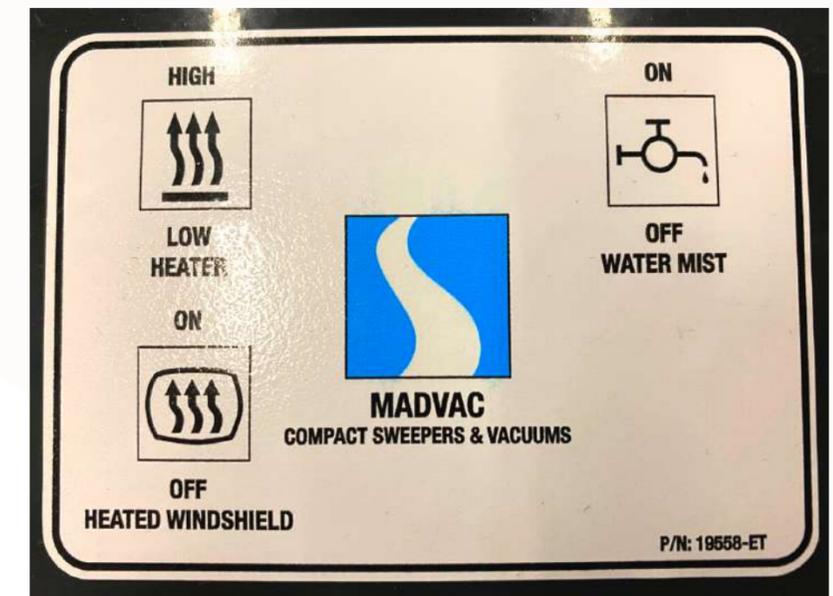
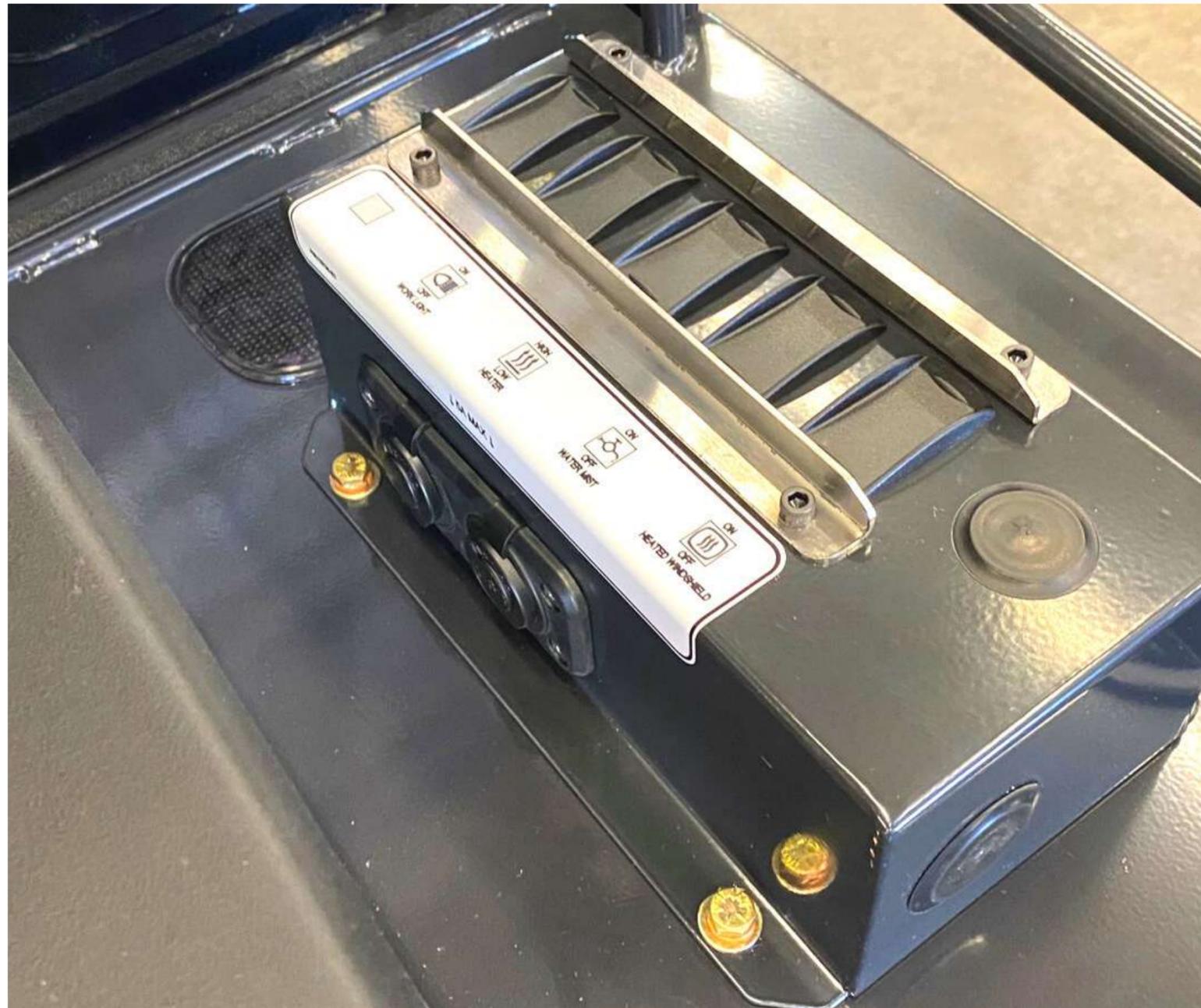
Storage compartment



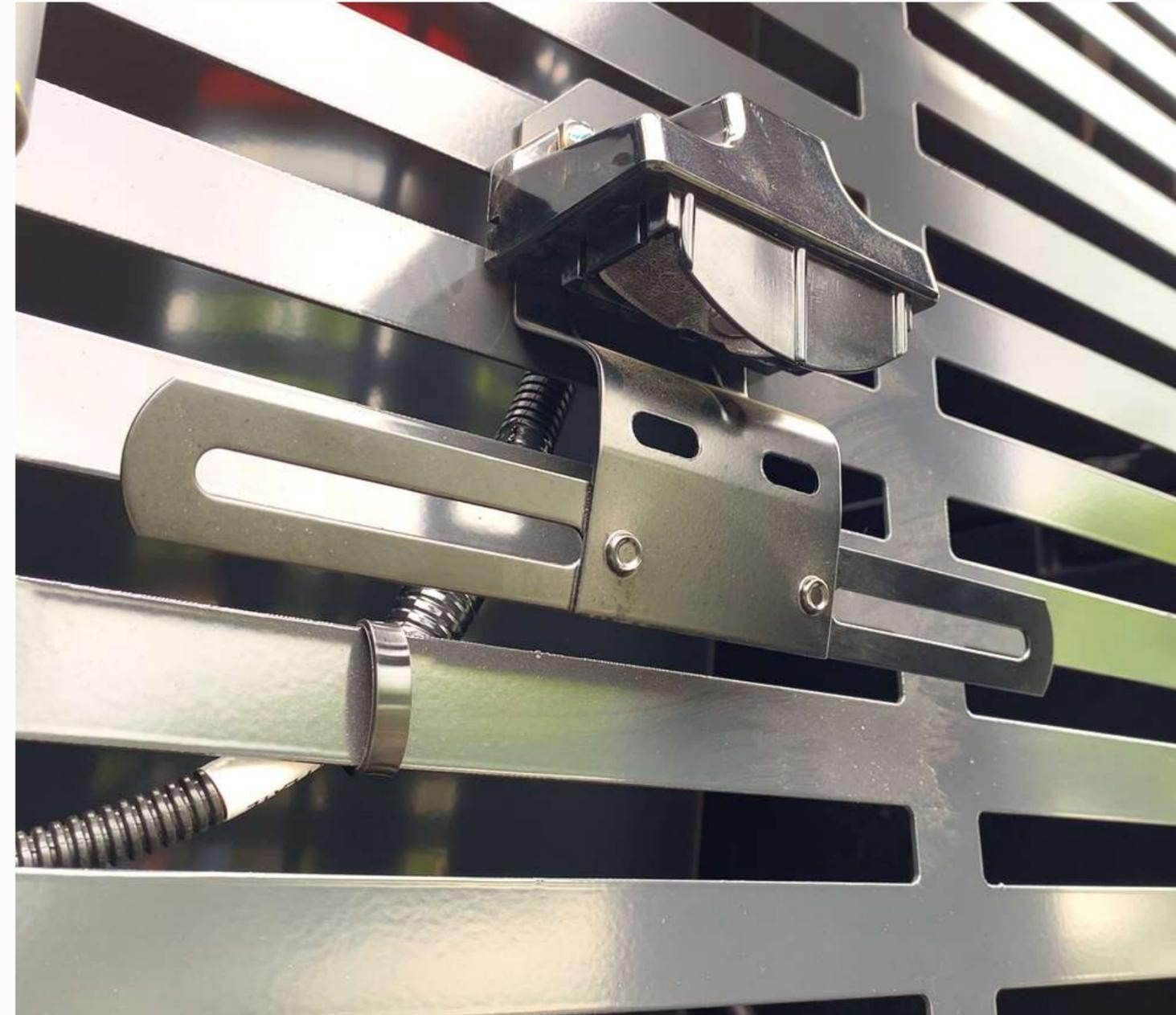
**Tire flat proofing -
liquid sealant (optional)**

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)



License Plate Holder



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)
450-651-0444 (International)



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www.madvac.com

Sourcewell 
Formerly NJPA

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procurement group of canada

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