



## Madvac<sup>®</sup> LS175 – The perfect solution for your outdoor cleaning needs

Specifically designed to address today's urban cleaning challenges.

**Sweep litter on narrow, hard to reach areas that has various obstacles and different surface types:**

- Area: sidewalks, bike and pedestrian lanes, parking lots, curb side, alleys, public markets, alongside buildings, pathways, etc.
- Obstacles: bus shelters, lamp posts, benches, fire hydrants, etc.
- Paving type: asphalt, concrete, cobblestone, brick.

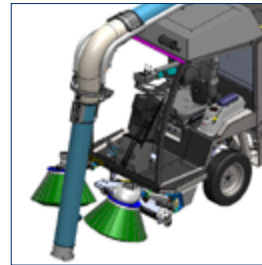
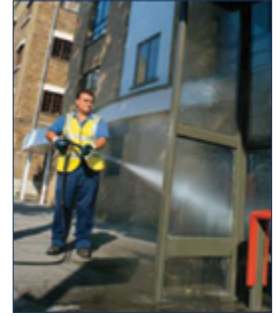
The LS175 is the ultimate sweep / vacuum / wash mobile cleaning unit for:

- |                                     |                    |
|-------------------------------------|--------------------|
| ▪ Cities & municipalities           | ▪ Industrial areas |
| ▪ Transit authorities               | ▪ Airports         |
| ▪ Distribution centers              | ▪ Casinos          |
| ▪ Shopping malls                    | ▪ Amusement parks  |
| ▪ Educational and sports facilities | ▪ Seaports         |
|                                     | ▪ Military         |
- **Safe & easy to use** – Does not require a CDL. Simple ergonomic controls, all-round visibility, safe to drive in crowded areas - anyone can operate this unit.

# Create your Ideal Urban Cleaning Unit to Sweep – Vacuum – Wash

## Madvac's new modular design allows you to configure the unit to suit your needs

- Engine Tier 3 or Tier 4 to meet your environmental objectives;
- 2 or 4 wheel drive to operate in all terrain areas;
- Hopper size 1.75 CY or 2.75 CY to optimize route and autonomy;
- With or without closed cab depending on your budget;
- Automatic climate control unit for operator comfort;
- Wander hose for hard to reach areas;
- Pressure washer for additional cleaning;
- Add a boom for picker capability on grass and/or hard to reach areas (LS Combo Unit).



ABOVE LEFT  
Wander hose *(option)*  
ABOVE RIGHT  
Pressure washer *(option)*  
LEFT  
Boom *(option)*

## The Madvac Advantage

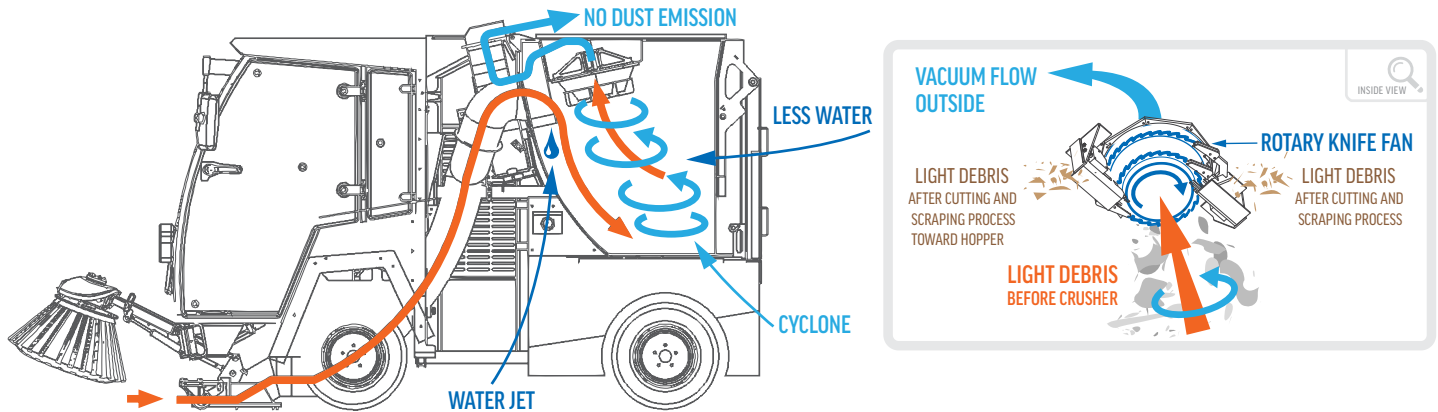
### The LS175 is the only compact urban cleaning unit built and serviced in North America

- Specifically designed for North American working conditions;
- Simple mechanical design;
- Robust, 10 to 12-year lifespan;
- Dealers across North America are the best outdoor cleaning expert;
- NJPA awarded national contract (#122017-EXP);
- Parts shipped within 48 hours;
- Modular design to suit your needs.



# New Innovative Dust & Debris Filtration System

Dust control performed by water jet on each brush with **no dust from the hopper** due to unique **Madvac RDDF System** (Rotary Debris & Dust Filtration)<sup>®</sup> Centrifugal 1200 RPM rotary knife pulverizing dust & litter before exhausting maximum 10 PPM dust emission.



## Madvac LS175 Highlights

### Performance

- High-capacity 1.75 cu. yd. (1.34 m<sup>3</sup>) stainless steel hopper with 67" (1702 mm) hydraulic dumping height;
- Low overall height of 78" (1981 mm) ideal for tree-lined roads and underground parking garages;
- Sweep path from 44" (1118 mm) to 100" (2540 mm) for easy cleaning of tight and wide areas;
- Narrow 48" (1219 mm) width to sweep hard to reach areas;
- Vacuum power 3500 CFM;
- Travel speed up to 18 Mph (30km) - working speed up to 8 Mph (13km) for clean and fast sweeping.

### Maintenance

- Simple, reliable mechanical design for less annual maintenance and repair;
- Straight-through suction system;
- Side-mounted fan design makes it impossible for litter to jam the fan;
- Easy access to electrical panel and hydraulic routing.

### Operator

- Superior handling, better stability, better curb-climbing capability;
- 58-gal (220L) water capacity for fewer fill-ups and longer shifts;
- Brush rotation & down pressure controlled from cab;
- 270-degree cab vision & glass door;
- Adjustable suspended air seat with 3-point seat belt;
- Adjustable arm rest with illuminated switches;
- Two front brushes independently controlled from cab;
- Single traction pedal – neutral, forward & reverse (no shifter).



# Madvac® LS175

## Data and Performance Information



<b>Capacities</b>		<b>Suspension</b>	
Fuel tank	21.1 Gal. (80 L)	Front	Axial coil springs / Heavy duty shock absorbers
Hydraulic System	23.7 Gal. (90 L)	Air Flow Speed	Longitudinal coil springs / Heavy duty shock absorbers
Litter Capacity	1.75 cu. Yd (1.34 m <sup>3</sup> )	<b>Sweep Gear</b>	
Water capacity	58 gal. (220 L)	Brushes	Two brushes (independently joy-stick controlled) 25 inches DIA each (635 mm) Polypropylene
<b>Engine Data Tier 3</b>		Sweeping Width	From 44 inches (1118 mm) to 100 inches (2540 mm)
Model	Deutz D2011L03	Pick Up Nozzle	Hydraulic raise/lower and polymer skate
Displacement	142.2 cubic in. (2330 cc)	Brush Speed	0 RPM to 150 RPM
Gross Rated Power	48 HP (35.8kW) @ 2800 rpm	Brush Arm	Self leveling and self adjustable for brush wear
Air Cleaner	2 stage Donaldson with restriction indicator	In Cab	Brush speed & down pressure (option)
<b>Engine Data Tier 4</b>		<b>Electrical</b>	
Model	Hatz engine 3H50TIC	Voltage	12 Volts, 80 AMP alternator / Heavy duty battery
Displacement	91.54 cubic in. (1500 cc)	Lighting	2 headlights, brakes, turn signals, taillights 4-way flashers, 4 amber strobes
Gross Rated Power	56.0 HP (42 Kw) @ 2800 rpm		Fuel gauge, hour meter, oil pressure light, water temperature light, battery light & engine light, Radio, CD, MP3 player (option) Color back up camera with 7" monitor (option)
Air Cleaner	2 stage Donaldson with restriction indicator	Instruments	
<b>Litter Collection System</b>		<b>Cab</b>	
Type	Cyclonic 3 stage filtrations	Cab	Forward design, 200 degree vision
Frame / Body	Triangular frame tubing ¼ in. (6 mm)	Windshield	Full windshield
Container Material	Stainless steel	Windows	Side windows open each side
Dumping Height	67 inches (1702 mm)	Light	Dome light
Container Payload	2000 lbs (910 kg)	Doors	Full view glass tempered doors
Power Wash	Pressure water washer 1500 PSI (103.4 BAR) Option	Heating / AC	HVAC unit (option)
<b>Vacuum System</b>		Defrost	Windshield heated micro filament (option)
Vacuum Rating	3500 CFM	Seat	Adjustable air vinyl seat with arm rest
Air Flow Speed	8,400 ft./min	<b>Dimensions</b>	
Static Pressure	30" of water gauge (7.472 KPA)	Width	48 inches (1219 mm)
Remote Vacuum	Wonder hose (option)	Length	122 inches (3099 mm)
<b>Traction</b>		Height	78 inches (1981 mm)
Drive	Front wheel drive / Four-wheel drive (option)	Wheelbase	65 inches (1651 mm)
Forward Speed	18.6 mph (30 Km/H)	Ground Clearance	8.5 inches (216 mm)
Tires	Radial 225 R 12	<b>Hydraulic System</b>	
Brakes	Front hydrostatic brakes / Rear mechanical parking disk brakes	Hydraulic Cooler	Electric fan cooled
Grade	Grad ability 25%	Steering	Automotive type, power assisted
Curb Weight	Dry 5500 Lbs (2,400 Kg)	Drive System	Heavy duty hydrostatic drive
Weight Distribution	Front 45% / Rear 55%		

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