



Formula[®] 4000

Mid-Range Rear Loader



Formula[®] 4000

A workaholic built to last.

Why are there so many **Formula 4000** refuse collection vehicles on the road today? Because once you put one on the road, it tends to stay there. In fact, thousands of these vehicles are dedicated to serving the needs of small municipalities and large metropolitan cities the world over. They feature the low cost of ownership you expect from Heil, along with the best payload-to-weight ratio of any mid-range rear loader. And, with a proven track record in both residential and commercial applications, the **Formula 4000** has earned its reputation as the mid-range workhorse of the industry.

Built to last. The foundation of the **Formula 4000's** durability is its interlaced subframe, featuring formed channels for extra strength. Heil pioneered this design to provide the strongest foundation in the industry for long-lasting strength and durability. In addition, the floor of the **Formula 4000** is made from abrasion-resistant, high-tensile steel that stands up to the most

demanding conditions, yet its lower overall body weight increases payloads and reduces stress on chassis components.

Precision Engineered. The **Formula 4000** features a number of engineered innovations, including an ejector panel designed to reduce wear by fitting precisely into the body, without ever contacting the tailgate. Its snout-less ejector elevates the cylinder base, which keeps the cylinder free from contamination by refuse. We even designed the **Formula 4000** to feature a lower profile for better center of gravity and clearance from obstructions.

To add the proven **Formula 4000** to your fleet, simply contact your local Authorized Heil Dealer. To find the Dealer nearest you, visit www.heil.com.



Shown with optional equipment.



Reliable Residential and Commercial Performance

Heil's Formula 4000 was engineered with the durability and flexibility to handle both residential and commercial routes.

- **Best Payload** — The Formula 4000 features the best payload-to-weight ratio of any mid-range rear loader on the market.
- **High Capacity** — Choose from body capacities ranging from 13 to 25 cubic yards.
- **Low Profile** — The low profile design provides better center of gravity and clearance from overhead obstructions.
- **Large Hopper** — The 2.66 cubic yard hopper makes short work of any residential route.
- **Low Flow, High Efficiency Hydraulics** — The hydraulics operate at a lower temperature, extending the life of hydraulic components, while cushioned cylinders prevent internal damage and premature wear, reducing maintenance requirements.
- **Rapid Reload** — The 15-17 second cycle time and 7-10 second reload time will have you finishing routes quickly and efficiently.

Interlaced Subframe

Our exclusive fully welded interlaced subframe provides exceptional longevity, while resisting abrasion, corrosion, and salt damage. The body is constructed of 7- to 8-gauge high-tensile steel, while the hopper features 5/16 inch thick AR400 steel on the floor and 3/16 inch thick AR400 steel on the sides for superior strength and durability.



Commercial & Residential Applications

The Formula 4000 can be fitted with a wide selection of premium Bayne lifters for residential carts, or with a winch or reeving cylinder and roll bar for commercial containers.



Narrow Widths Available

The Formula 4000 is available in narrow widths to accommodate the alleys, congested street, and other space challenges of residential collection routes.



Service Smart™ Side Door

Our Service Smart™ design simplifies routine maintenance and keeps you away from the shop and out servicing your customers – and making money. The side door provides easy access for common maintenance tasks.





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Mid-Range Rear Loader Product Specifications

Performance Specifications	
Compaction	Up to 800 lbs. per yd ³
Hopper Size	2.66 yd ³
Packing Cycle Time	15-17 seconds*
Reload Time	7-10 seconds*

* with optional regen valve
 All designs, specifications and components are subject to change at the manufacturer's sole discretion at any time without notice. Data published herein is for information purposes only and shall not be construed to warrant suitability of the unit for any particular purpose, as performance may vary with the conditions encountered. The only warranty is our standard written Warranty Statement for this product at the time of shipment.

Hydraulic Specifications	
PUMP	
Type	High pressure gear
Maximum Operating Pressure	2,500 psi
GPM	24 GPM
OIL RESERVOIR	
Tank Capacity (net)	35 gallons
Filters	10 micron return filter; 140 micron suction line
VALVES	
Shutoff	Ball type
Packing Control	Spool type
Ejector and Tailgate Raise	Spool type

Tailgate Specifications		13-20 yd ³	25 yd ³
Hopper Capacity	yd ³	2.66	2.66
	m ³	2.04	2.04
Sill Height Below Chassis Frame	in.	0	2
	mm	0	51
Hopper Loading Width	in.	80	80
	mm	2,032	2,032
Hopper Opening Height	in.	46	46
	mm	1,168	1,168
Cycle Time (seconds)	complete	17-19	17-19
	reload	7-10	7-10

Chassis Requirements		13 yd ³	16 yd ³	18 yd ³	20 yd ³	25 yd ³
Minimum GVWR		25,500	27,000	29,500	32,000	43,000
Minimum GAWR ⁽¹⁾	front	8,000	9,000	9,000	9,000	9,000
	rear	17,500	18,000	20,000	23,000	34,000
Usable CA	in.	96 ⁽²⁾	102-108	118-124	132-138	N/A
	mm	2,438	2,591-2,743	2,997-3,150	3,353-3,505	N/A
Usable CT	in.	N/A	N/A	N/A	114-120	136-142
	mm	N/A	N/A	N/A	2,896-3,048	3,454-3,607
Minimum AF	in.	32	32	32	32/51	51
	mm	813	813	813	813/1,295	1,295

(1) Any chassis sent to Heil Environmental with less than these minimum GVWR/GVARs will not be mounted.
 (2) If CA/CT is not as recommended, contact Heil Environmental for applicable weight distribution and GVWR/GVAR requirements.

Body Specifications		13 yd ³	16 yd ³	18 yd ³	20 yd ³	25 yd ³
Body Capacity	yd ³	13.8	16	18	20	25
	m ³	10.55	12.23	13.76	15.29	19.11
Overall Length	in.	186	201	217	231	254
	mm	4,724	5,105	5,512	5,867	6,452
Overall Length with Tailgate Raised	in.	211	226	241.5	255	287
	mm	5,539	5,740	6,134	6,477	7,299
Overall Width	in.	95.75	95.75	95.75	95.75	95.75
	mm	2,432	2,432	2,432	2,432	2,432
Overall Height Above Frame	in.	86	86	86	86	93
	mm	2,184	2,184	2,184	2,184	2,362
Overall Height with Tailgate Raised	in.	156	156	156	156	167
	mm	3,962	3,962	3,962	3,962	4,242
Gross Weight (approximate)	lbs.	9,100	9,400	9,650	9,900	10,700
	kg.	4,128	4,264	4,377	4,491	4,853

Cylinder Specifications						
Body Cylinders	Type	Model	Stages	Bore		
Tailgate Raise	Double Acting	ALL	N/A	in.	3	
				mm	76.2	
Packer Blade	Double Acting			in.	4	
				mm	101.6	
Slide	Double Acting			in.	4.5	
				mm	114.3	
Ejection	Double Acting Telescopic	13 yd ³	3	in.	5.5	
				mm	140	
				16 yd ³	in.	5.5
					mm	140
		18 yd ³	4	in.	6.5	
				mm	165	
		20 yd ³		in.	6.5	
				mm	165	
		25 yd ³	in.	6.5		
			mm	165		

CONTACT YOUR LOCAL DEALER



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