



a **DOVER** company

WE NEVER STOP WORKING FOR YOU

RevAMP

The Future of Refuse Collection is Now.



Sourcewell
Formerly NJPA

Awarded Contract

Contract # 091219-THC

Buy the Heil RevAMP Through Sourcewell



**Environmental
Solutions Group®**

a **DOVER** company

Discover the future of all-electric automated collection.

www.Heil.com

Heil RevAMP

Fully-Electric Automated Side Loader and Auger Compactor

The Heil® RevAMP™ automated side loader was developed with a mission of revolutionizing refuse collection. The 100% electric arm and auger compactor allows fleets to reduce their environmental footprint by reducing fuel use and greenhouse gas (“GHG”) emissions, while also eliminating hydraulic oil spills. This combination enables the operation of a fully-electric automated refuse collection vehicle (“RCV”), versus hybrid technologies that adapt a traditional hydraulic body to a battery-powered chassis and still require hydraulic hoses to operate the body functions.

The all-electric body features an arm with no kick-out, that provides a shake-free and smooth operation. The arm itself is much quieter, and does not have any hydraulics to power it. The auger compactor allows for compaction through the front wall of the body and unloading with a pack-through eject panel to discharge the waste. This design provides a self-cleaning hopper, and does not require tilting of the body to unload it. With all body and arm functions being battery powered, no energy is drawn from the engine to power the body and the arm.

The RevAMP can be configured to be completely self-powered with its own battery packs for conventional diesel, compressed natural gas (“CNG”), or electric power chassis, and can also be integrated into an electric-powered chassis to use a common battery pack. The energy-efficient RevAMP body can complete a full ten-hour route on a single overnight charge, while packing ten tons of legal payload, and still have battery charge to spare. In addition, the use of electric RCVs offers waste haulers and their municipal waste customers a new technologically and economically viable tool to support their sustainability initiatives.

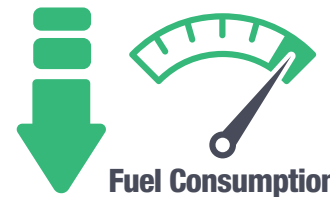
Improve Your Sustainability. Improve Your Bottom Line.

The Heil RevAMP electric side loader is more environmentally friendly than any other standard automated truck on the market.

- ✔ 100% electric on-route - NO hydraulics - NO hydraulic leaks
- ✔ Fuel savings of up to 35% on diesel chassis; 100% fuel savings on electric chassis
- ✔ Easily charge overnight with plenty of energy for a day’s work
- ✔ GHG reduction of 41 tons/year/truck on diesel chassis
- ✔ Lighter body (less than 16,400 lbs.) - less fuel consumed - better payload



Get AMPed about Fuel Savings



Fuel Consumption

When the RevAMP body is configured with a diesel-fuel chassis, fuel consumption is reduced by up to **35%** when compared to an hydraulic body. This pairing can result in dramatic fuel savings per year.



Chassis Range

When the RevAMP body is configured with an electric-powered chassis, range is extended due to elimination of the power take off from the EV chassis.

Infinitely Customizable Configurations to Maximize YOUR Route Productivity



Available with electric powered chassis, with the option to integrate into the chassis to use a common battery pack



Available with conventional diesel chassis



Available with CNG chassis

Heil RevAMP Electric Automated Side Loader

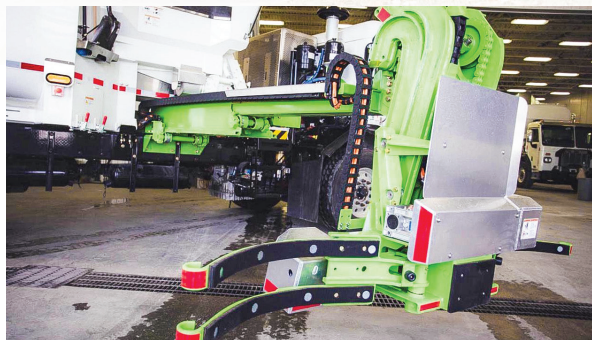
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Discover What Sets The Heil RevAMP Apart



EJECTION PANEL

- ✔ An electric motor is used to drive the ejection panel
- ✔ Pack-through innovation (patent pending) provides full-eject capability (no tilt-to-dump)
- ✔ Full-eject design improves stability at the landfill
- ✔ Body fixed to frame allows for shortening wiring, simplified body installation
- ✔ Large entrance points for easy access behind the ejector



LIFT ARM

- ✔ Fast 8-second cycle time and precise arm motion enables highly productive refuse collection while on route
- ✔ Shake-free, smooth operation reduces driver fatigue
- ✔ No arm kick-out allows for the collection of refuse in alleyways and other tight areas
- ✔ Fully electric arm is remarkably quiet and has no hydraulic hoses or tubes that can leak or break



ENERGY

- ✔ 46 kWh Battery, Up to 400A available at 100V
- ✔ More than 1,200 containers on an overnight battery charge (approx. 6-8 hours to charge)
- ✔ No power required from a chassis diesel engine
- ✔ Type 2 AC charging with 208/240 VAC shop power



AUGER

- ✔ The auger, tapered from 30 inches to 24 inches, requires less energy than a typical compactor ram
- ✔ Self-cleaning hopper to avoid material bridging
- ✔ Sturdy endless auger design allows the refuse material to dump over it while in operation, so that the hopper clears quickly
- ✔ Surface treatment on the hopper and auger is designed specifically for harsh material

Heil RevAMP Electric Automated Side Loader

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Heil RevAMP Specifications

BODY	27 + 3 yd ³
Body Weight	7439 kg 16,400 lbs. (including arm & battery)
Capacity	20.6m ³ 27 yd ³
Length	6700mm 264 in.
Body Material	12 ga (2.657mm) steel, grade 80
Floor	3 piece body floor
Middle Floor (1)	6.35mm (1/4 in.) 100,000 tensile strength, abrasion-resistant
Side Floor (2)	4.76mm (3/16 in.) 100,000 tensile strength, abrasion-resistant"
TAILGATE	
Capacity	2.3m ³ 3 yd ³
Length	610mm 24 in.
Body Material	12 ga (2.657mm) steel, grade 80
Mechanism	Two electrically actuated, self-contained hydraulic actuators to unlock/lock rear panel & raise/lower in same movement
HOPPER	
Capacity	2.3m ³ 3 yd ³
Trough-Type Floor	6.35mm (1/4 in.) abrasion-resistant steel with 400 HB of hardness, welded on plate 9.5mm (3/8 in.)
Auger Compactor	Electric-drive mechanism delivers up to 30,800 N-m (22,717 ft. lbs) torque for optimal compaction and achieves fast material transfer rate of 4.6 m ³ /min (6 yd ³ / min. Automatic torque and speed control allows collection of refuse, recycling, and organics, without destroying material and avoiding packing jam. The tapered screw allows a 3-phase compaction of the material, radial compaction and axial compaction into the auger area followed by the final compaction phase inside the body.

PACK-THROUGH EJECT PANEL (PATENT PENDING)

The patent-pending design allows packing through the front wall of the body and unload with an eject panel, driven by Permanent Magnet DC (PMDC) motor, planetary, and chains. The system has a moving shutter that closes the packer opening to limit refuse from falling back behind the ejector during unloading operation.

AUTOMATED ARM (PATENT PENDING)

Close grab, no swing-out, 3m (10 ft.) reach for containers 120, 240, and 360 L (30, 60, and 90 gal.) with a lifting capacity of 227 kg (500 lbs.). All 3 functions are powered by PMDC electric motors and gearbox combination for a cycle time of less than 10 seconds.

ELECTRIC

Battery	LiNMC high-density technology allows lighter weight and quick recharge (4-8 hours) on Type 2 charging station, 240 VAC compatible J1772. Powered heat pads are installed in the battery pack to maintain the battery at its best working condition and temperature.
Autonomy	46 kWh of capacity, allows collection of over 1,200 containers per day with the overnight charge in any temperature conditions.

CHASSIS

The design of a collection body with a 100% electric arm (with electric-powered hydraulic power pack for tailgate) is the most efficient unit to be installed on a 100% electric chassis. With such a concept, the electric chassis has enough autonomy to meet the standard collection routes (above 1,200 containers/day).

Conventional	56,000 GVW, 256 in. WB (27 + 3 yd ³ body)
Cabover	60,000 GVW, 220 in. WB (27 + 3 yd ³ body)

|| 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.



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EXPEDITE THE PURCHASE OF YOUR HEIL UNIT THROUGH SOURCEWELL

Sourcewell Cooperative Purchasing Program has awarded Heil a nationally bid contract for "Solid Waste and Recycling Collection Equipment with Related Equipment, Accessories, and Supplies." Through the Heil contract, Sourcewell members can purchase any of the Heil line of refuse and recycling equipment, including front-loading, side-loading, and rear-loading refuse collection vehicles, without having to create an RFP and send the project through a time-consuming duplicate bid process. By using the existing nationally bid contract, members can receive the products they need more quickly and cost effectively. Best of all, Sourcewell membership is free! Qualified agencies can join online via the Sourcewell purchasing website at www.sourcewell-mn.gov. To find out more about purchasing Heil equipment via the Sourcewell contract, please contact your local Heil Dealer at www.heil.com/dealers.



TRUST HEIL CERTIFIED OEM PARTS

Heil Certified OEM parts are the most reliable replacement parts for Heil refuse collection vehicles. They're made following the exact specifications and production processes on the same assembly lines as the parts originally installed on the bodies. This means that they fit perfectly every time. Heil uses only the highest-quality materials for parts that last - minimizing costly downtime. For more information on parts, contact your Heil dealer. Visit: www.heil.com/dealers to find the dealer nearest you.



READY TRUCK

Nextelligence
Connected-Tech Training



RevAMP

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EYES ON THE FUTURE

Environmental Solutions Group is proud to be the global leader in innovative solutions for the solid waste industry. From reliability, productivity, and sustainability, to connected technologies that allow fleets to make better decisions faster, ESG provides real-world solutions that can streamline businesses and improve bottom lines. Contact your local Heil regional sales manager for more information or a demo.



Connected Collections

Heil products are ready to integrate with our Connected Collections® digital solutions. This is part of our vision, focused on helping fleet owners make better decisions, faster. For more information on ESG's Connected Collections, contact your local Heil dealer or visit us online at heil.com/connected-collections

www.heil.com



COUNT ON THE LOWEST TCC

Helping you save money is our passion, and we apply tremendous resources to advance our product and service offerings to improve the profitability of your business and provide the lowest Total Cost of Collection and the maximum return on your investment. You can be confident that choosing Heil equipment brings a long-term partnership with the industry leader.



CONFIGURATION ASSISTANCE

Chassis layout assistance is available through Heil. For more information, please contact your local Heil representative.



Nextelligence
Connected-Tech Training

INDUSTRY-LEADING TRAINING

Heil has completely revamped their training programs with the addition of both the Heil Service Shack® instructional video series, and our four-tiered Nextelligence® Connected-Tech Training. Now, customers can visit the Heil Service Shack on the Heil website to learn the latest techniques, view helpful service and training videos, and sign up for Connected-Tech courses to better train technicians on Heil Refuse Products. Ensure your shops are servicing your Heil products correctly; check out the Heil training offerings at www.heil.com/nextelligence.