

Duke UNIVERSITY

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WASTE COMPACTORS AND DESTRUCTORS

COMPACTOR

COMPACTOR

Ideally, the recycling carts and trash and cardboard dumpsters will be on the same pad and enclosure. However, the quantity, size, and type of dumpsters needed are dependent on the building use and size. When volume or special needs dictate a larger dumpster, compactors are recommended. These may be used for trash or cardboard.

Pad Dimensions:

- The pad for a 20-30 cubic yard horizontal compactor should be 12' wide and 40' long. Additional space may be needed for the electrical unit.
- Elevation drawing and details for outdoor service areas must be shown on the plans.

Concrete Information:

- The pad should be a minimum of 3,000 PSI concrete, with #4 bars at 12" on center each way, and 6" thick.
- Pour the pad on compacted earth with a minimum base of 4" ABC stone. These are minimum requirements.
- Final structural design of the pad shall be based on project requirements.
- The floor of the enclosure (or the pad) shall slope 1/8" per foot to allow rainwater and other liquids to drain off without puddling.



(Refer to the following specifications for the preferred Marathon Self-Contained Compactor)

Vert-I-Pack® Self-Contained Compactor/Container



Use for front and rear feed applications

Convert the unit to accommodate a 4, 6, or 8 cubic yard container

Extra-low feed heights

Rigid anchoring platform

Triple interlock

Available from 3 to 8 cubic yard capacities



Front load/rear feed 6 cu. yd. configuration pictured

RAMJET
Stationary and self-contained compactors.



Environmental Solutions Group

A DOVER COMPANY

Hotels

Shopping malls

Supermarkets

Fast food restaurants



Side Feed Configuration

Pictured above is a side feed configuration installed at a supermarket equipped with an optional "thru-the-wall" security chute.



Integrated Driver Light

The integrated Driver Light illuminates green to signal the driver that the container is "ok" to be removed and dumped, making dumping simple and quick.

Vert-I-Pack® (VIP) Compactor with 4,6, or 8 Cubic Yard Capacity Container

Vert-I-Pack Benefits for the Hauler

- ▼ The Vert-I-Pack vertical compactor is designed to simplify compacted waste dumping, save driver time, and substantially reduce maintenance costs. A front loader operator can attach and empty the container in less than 90 seconds.

- ▼ The Vert-I-Pack features a reversible feature that allows the unit to easily be converted to front or rear feed by moving the interchangeable bolt-on container stops.

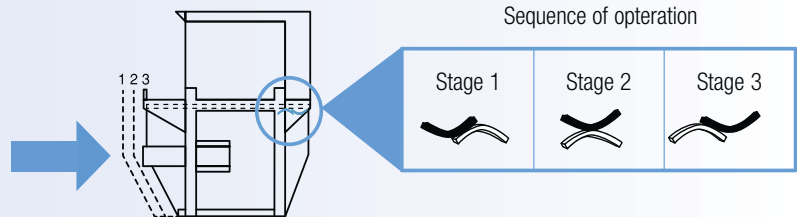
This enables one compactor to be used for a variety of applications.

- ▼ The telescoping legs allow the Vert-I-Pack to adjust up and down to accommodate 4, 6, or 8 cubic yard (3.1, 4.59, or 6.12 cubic meter) containers. The process of vertical compaction eliminates all openings in the side of the container from which waste materials can leak or spill. The location of the ram above the refuse prevents trash and liquids from collecting behind the blade, which can foul-up the cylinder or create damage when it freezes in the winter. Integral container guides provide 3-inches (76.2mm) of vertical tolerance, making re-entry fast and smooth.



VIP-LOCK®

Marathon's patented VIP-LOCK positive container lock-in device prevents container "walking". The container device "rides over" the compactor device as the truck moves the container into position. In the fully inserted position, the compaction force inside the container prevents the container from moving.



Images shown with optional equipment

SELF-CONTAINED COMPACTORS



Vert-I-Pack® Benefits for the Operator

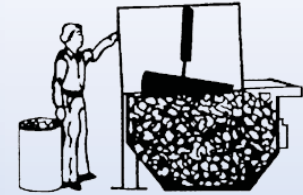
- ✔ Marathon's variety of low-profile Vert-I-Packs range in size from 3 to 8 cubic yards (2.29 m³ to 6.12 m³). These are available with feed heights as low as 44 7/8-inches (1140mm) and with front, rear, or side feed configurations. The Vert-I-Pack alleviates the need for all those unsightly containers that draw scavengers and vermin. Your refuse stays inside the unit. The Vert-I-Pack also prevents others from dumping refuse into your container since the Vert-I-Pack is key-operated and controlled. The Vert-I-Pack stores your refuse in an ozone rich atmosphere (with optional ozonation device), which eliminates odors and keeps out insects and their larvae.
- ✔ The Vert-I-Pack is a real space saver – with more than 13-tons (11,793 kg) of crushing force, it reduces the contents of many open containers into 1 Vert-I-Pack container. This saves your hauler time because the hauler has only one container to pick up. It also prevents weekend overflow, which eliminates the need to schedule those expensive weekend pickups.
- ✔ The Vert-I-Pack is designed with the operator in mind. It has no heavy or clumsy lids to open and close – just a single easy and simple to open door.
- ✔ The Vert-I-Pack controls employee pilferage – optional security kit (rear feed and side feed units only) enables the unit to be fed from inside the building, eliminating the temptation to employees to put merchandise into a box, stash the box in the trash container, and return later to retrieve your merchandise.

Vert-I-Pack Triple Lock

- ✔ The mechanical door interlock prevents the door from being opened at all times except when the unit is in the proper feeding position. A second interlock prevents the unit from cycling (operating) when the door is in the open position. The third interlock prevents the unit from functioning when the container is not in the proper position.

Simple User Operation

Step 1



- ✔ The operator inserts the key and turns it to the "UP" position. The ram moves from the mid-point position to the up position. The door can now be opened.

Step 2



- ✔ The large opening allows even 30 gallon (114 liter) containers to be emptied easily.

Step 3



- ✔ After feeding the operator closes the door and removes the key. The unit then cycles automatically when the door is closed. With more than 13-tons (11,793 kg) of crushing power, the Vert-I-Pack forces the ram 18-inches (457.2mm) in to the container.

Step 4



- ✔ After the ram reaches maximum penetration, it automatically reverses itself. The unit automatically shuts down when the ram reaches the mid-point position at the top of the container. The ram remains in this position until the next use, sealing off the top of the container and applying constant pressure to the refuse. This helps to increase compaction and reduce spring-back.

SELF-CONTAINED COMPACTORS

Vert-I-Pack® Self-Contained Compactor

Dimensions and Specifications

Specifications		
Charge Box Capacity		
[Mfr. Rating]	0.72 cu yd	0.55 m ³
[WASTEC Rating]	0.54 cu yd	0.41 m ³
Clear Top Opening	23.5"L x 46"W	597mm x 1168mm
Performance Characteristics:		
Cycle Time	30 sec.	30 sec.
Total Normal Force	26,400 lbs.	11,975 kg
Total Maximum Force	30,200 lbs.	13,699 kg
Electrical Equipment:		
Electric Motor 3/60/230-460	3 hp	2.2 kW
Electric Control Voltage	120 VAC	120VAC
Panel Box Assembly		
UL® and CUL® Listed	Key Operated	120 VAC
All Circuits Fused	2-Button Station Start/Stop	
Hydraulic Equipment:		
Hydraulic Pump	3 gpm	11.4 L/min
Normal Pressure	15.3 psi	1.0 bar
Maximum Pressure	17.5 psi	1.2 bar
Hydraulic Cylinders (2) - Bore	4"	102mm
- Rod	2"	51mm

Model	Size	Feed Height	Complete Assembly Weight	Container Weight	Overall Height	Overall Length/Width	Overall Depth
Front-load collection trucks							
Front feed	3 cu yd	46 3/4"	3,464 lbs	675 lbs	86 1/2"	96"	62 1/2"
	2.1 m ³	1187mm	1571 kg	306 kg	2197mm	2438mm	1588mm
Front/Rear feed	4 cu yd	44 7/8"	4,014 lbs	923 lbs	85 1/4"	92 3/8"	83 1/4"
	3.1 m ³	1140mm	1820 kg	419 kg	2165mm	2346mm	2115mm
Front/Rear feed	6 cu yd	56 1/2"	4,161 lbs	1,052 lbs	96 7/8"	92 3/8"	83 1/4"
	4.6 m ³	1435mm	1887 kg	477 kg	2461mm	2346mm	2115mm
Front/Rear feed	8 cu yd	74 5/8"	4,351 lbs	1,360 lbs	115"	92 3/8"	83 1/4"
	6.1 m ³	1895mm	1973 kg	612 kg	2921mm	2346mm	2115mm
Side feed	6 cu yd	61 3/4"	4,055 lbs	1,285 lbs	101 3/4"	96"	76"
	4.6 m ³	1569mm	1839 kg	583 kg	2585mm	2438mm	1930mm
Side feed	8 cu yd	79 3/4"	4,290 lbs	1,440 lbs	119 3/4"	96"	76"
	6.1 m ³	2026mm	1946 kg	653 kg	3042mm	2438mm	1930mm
Rear-load collection trucks							
Front feed	4 cu yd	52"	3,827 lbs	1,340 lbs	92 1/2"	96"	78 3/4"
	3.1 m ³	1321mm	1736 kg	608 kg	2350mm	2438mm	2000mm
Rear feed	4 cu yd	52"	3,626 lbs	1,150 lbs	92"	96"	90 1/2"
	3.1 m ³	1321mm	1645 kg	522 kg	2337mm	2438mm	2299mm

* Reversible/adjustable feature not available on Side Feed models



Also available as Green Built®, featuring Solar and other environmentally friendly components.

Marathon's solar option is not UL and CUL Listed.

Compactor Rental and Leasing Programs Available

For detailed specifications, recommendations, or free economic studies comparing various systems, contact Marathon Customer Care at **1-800-633-8974**.



Stationary and self-contained compactors.

Authorized Dealer:



Marathon Equipment Company
P.O. Box 1798
Vernon, AL 35592-1798
800.633.8974
www.marathonequipment.com
NJPA Contract #060612-ESG



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www.doveresg.com



Pictures in this literature are illustrative only. Specifications are subject to change without notice in order to accommodate improvements to the equipment. Certified in compliance with ANSI standard Z245.2, all applicable OSHA Regulations, and certified under WASTEC's Stationary Compactor Certification Program. Products must be used with safe practice and in accordance with said regulations and standards.