

Solar-Hybrid Powered Compactors



Choose eco-friendly solar-hybrid power

Compact refuse using the power of the sun

Use less energy than conventional power units

Reduce installation costs

Favorably impact LEED certification applications



US Patent #8,479,648



Environmental Solutions Group

A DOVER COMPANY

Hospitals

College Campuses

Green Buildings

Fast Food

Restaurants

Retail Stores

Convenience Stores

Gas Stations

Remote Parking Lots

*Parks and Recreation
Facilities*

Marathon Solar-Hybrid Industrial Compaction Systems

Marathon is committed to providing waste compaction solutions that meet the global sustainability needs of our customers. With each new product, we have made measurable strides in reducing energy and fuel consumption while continuing to offer superior product performance.

Our line of Green Built solar-hybrid compactors is a first in the industry. These models compact refuse using the power of the sun for true independence from the power grid and its associated costs.

Our solar-hybrid models connect to the power grid as a backup that automatically switches when necessary. They use less energy than conventional power units, and the batteries recover as the compactor continues to be available for operation.



Marathon is the first to incorporate sustainable solar-hybrid powered compaction systems in the solid waste and recycling industry.

Other Green Built Products:

Green Built® DRC II

- ✔ 5 HP high-efficiency power unit
- ✔ Biodegradable hydraulic fluid



Shown with optional cushioned ground rollers

Green Built® Stationary Compactors

- ✔ 5 HP high-efficiency power unit or solar-hybrid power unit
- ✔ Biodegradable hydraulic fluid



Green Built® Pak'ntainer®

- ✔ Solar-hybrid power unit
- ✔ Biodegradable hydraulic fluid



Waste compaction reduces hauling costs and truck emissions by more than 70% over open-top applications!

SOLAR-HYBRID COMPACTOR

Green Built® Self-Contained Compactor English Specifications

Model	Container Capacities* (cubic yards)	Charge Box Capacity (cubic yards)	Feed Opening (in.)	System Pres-Norm. (psi)	System Pres-Max. (psi)	Force Rate-Norm. (lbs.)	Force Rate-Max. (lbs.)	5 HP Cycle Time (sec.)	Dry Cycle Time (sec.)
RJ-88 SC	15, 20 & 24	0.70	30½ x 48	1,700	2,000	36,600	43,100	25	44
RJ-88 HT	16, 20 & 24	0.70	30½ x 48	1,700	2,000	36,600	43,100	25	44
RJ-250 SC	15, 20, 25, 30, 34 & 39	1.31	41 x 58	1,850	2,300	39,900	49,500	32	87
RJ-250 HT	25 & 29	1.31	40½ x 58	1,850	2,300	39,900	49,500	32	87
DRC II	8.4 – 19.6 per compart.	1.79	34½ x 48	1,850	2,000	31,800	31,800	36	39

Green Built® Self-Contained Compactor Metric Specifications

Model	Container Capacities* (cubic meters)	Charge Box Capacity (cubic meters)	Feed Opening (mm)	System Pres-Norm. (kPa)	System Pres-Max. (kPa)	Force Rate-Norm. (kN)	Force Rate-Max. (kN)	5 HP Cycle Time (sec.)	Dry Cycle Time (sec.)
RJ-88 SC	11,47, 15,29 & 18,35	0,54	774,7 x 1219,2	11,721	13,789	163	192	25	44
RJ-88 HT	2,23, 15,29 & 18,35	0,54	774,7 x 1219,2	11,721	13,789	163	192	25	44
RJ-250 SC	11,47, 15,29, 19,12, 22,94, 26,00 & 29,82	1,00	1041,4 x 1473,2	12,755	17,236	177	220	32	87
RJ-250 HT	19,12 & 22,17	1,00	1028,7 x 1473,2	12,755	17,236	177	220	32	87
DRC II	6,42 – 14,99 per compart.	1,37	876,3 x 1219,2	12,755	13,789	141	141	36	39

Green Built® Stationary Compactor English Specifications

Model	Charge Box Capacity (cubic yards)	Feed Opening (in.)	System Pres-Norm. (psi)	System Pres-Max. (psi)	Force Rate-Norm. (lbs.)	Force Rate-Max. (lbs.)	5 HP Cycle Time (sec.)	Dry Cycle Time** (sec.)
RJ-225	1.55	40½ x 60	1,650	1,950	46,700	55,100	69	148
TC-220T TANK	1.44	42 x 58	1,850	2,000	54,500	54,500	49	52, 40
TC-225T TANK	1.82	53½ x 58	1,850	2,000	54,500	54,500	59	63, 49

Green Built® Stationary Compactor Metric Specifications

Model	Charge Box Capacity (cubic meters)	Feed Opening (mm)	System Pres-Norm. (kPa)	System Pres-Max. (kPa)	Force Rate-Norm. (kN)	Force Rate-Max. (kN)	5 HP Cycle Time (sec.)	Dry Cycle Time** (sec.)
RJ-225	1,19	1028,7 x 1524	11,376	13,444	208	245	69	148
TC-220T TANK	1,10	1066,8 x 1473,2	12,755	13,789	242	242	49	52, 40
TC-225T TANK	1,39	1358,9 x 1473,2	12,755	13,789	242	242	59	63, 49

Green Built® Vert-I-Pack® & Pak'ntainer® English Specifications

Model	Collection Vehicle Type	Container Capacities (cubic yards)	Charge Box Capacity* (cubic yards)	Feed Opening (in.)	System Pres-Norm. (psi)	System Pres-Max. (psi)	Force Rate-Norm. (lbs.)	Force Rate-Max. (lbs.)	Dry Cycle Time** (sec.)
Front Feed VIP	FL	3, 4, 6 & 8	0.54	23½ x 46	2,100	2,400	26,400	30,200	30
Rear Feed VIP	FL	4, 6 & 8	0.54	23½ x 46	2,100	2,400	26,400	30,200	30
Side Feed VIP	FL	6 & 8	0.54	23½ x 46	2,100	2,400	26,400	30,200	30
Front Feed VIP	RL	4	0.54	23½ x 46	2,100	2,400	26,400	30,200	30
Rear Feed VIP	RL	4	0.54	23½ x 46	2,100	2,400	26,400	30,200	30
Untouchable VIP	FL	2.5	0.54	23½ x 46	2,100	2,400	26,400	30,200	30
VIP FL/3	FL	3	0.54	23½ x 46	2,100	2,400	26,400	30,200	30
Pak'ntainer	FL/RL	4 & 6	0.50	22½ x 46	2,400	2,400	19,800	19,800	27

Green Built® Vert-I-Pack® & Pak'ntainer® Metric Specifications

Model	Collection Vehicle Type	Container Capacities (cubic meters)	Charge Box Capacity* (cubic meters)	Feed Opening (mm)	System Pres-Norm. (kPa)	System Pres-Max. (kPa)	Force Rate-Norm. (kN)	Force Rate-Max. (kN)	Dry Cycle Time** (sec.)
Front Feed VIP	FL	2,29, 3,06, 4,59 & 6,12	0,41	596,9 x 1168,4	14,478	16,547	117	134	30
Rear Feed VIP	FL	3,06, 4,59 & 6,12	0,41	596,9 x 1168,4	14,478	16,547	117	134	30
Side Feed VIP	FL	4,59 & 6,12	0,41	596,9 x 1168,4	14,478	16,547	117	134	30
Front Feed VIP	RL	3,06	0,41	596,9 x 1168,4	14,478	16,547	117	134	30
Rear Feed VIP	RL	3,06	0,41	596,9 x 1168,4	14,478	16,547	117	134	30
Untouchable VIP	FL	1,91	0,41	596,9 x 1168,4	14,478	16,547	117	134	30
VIP FL/3	FL	2,29	0,41	596,9 x 1168,4	14,478	16,547	117	134	30
Pak'ntainer	FL/RL	3,06 & 4,59	0,38	571,5 x 1168,4	16,547	16,547	88	88	27

FL = Front Loader collection trucks; RL = Rear loader collection trucks

* WASTEC rating

** Cycle time may vary because of battery charge level and fullness level of container.

Green Built® Specifications

Dimensions and Specifications

Green Built® Solar-Hybrid Power Unit Specs	
Electric Motor	120 VAC
Batteries	Power Stored in 4 Premium Deep-Cycle Batteries (2 for Solar-Hybrid VIP)
Key Operated Control Station	Yes
Hydraulic Pump(s)	Multi-Stage
Pressures & Forces	Same as Standard Units
Hydraulic Fluid	Biodegradable

Green Built® 5 HP Power Unit Specs	
Electric Motor	5 Hp (3.7 kW)
3/60/208-230/460	
Electric Control Voltage	120 VAC
Key Operated Control Station	All Circuits Fused
Hydraulic Pump	11 gpm HiLo (41.6 L/min.)
Pressures & Forces	Same as Standard Units
Hydraulic Fluid	Biodegradable

Patented Green Built® Solar-Hybrid Power Unit

For use with several Marathon self-contained compactor models and the Marathon RJ-225GB stationary compactor.

- ✔ Unlimited throughput capacity made possible by backup power from 120 AC electrical hookup. Automatically switches to grid when needed.
- ✔ Compaction performance is equal to comparable standard power units.
- ✔ No 3-phase power needed.
- ✔ Environmentally friendly biodegradable hydraulic fluid.
- ✔ Power is stored in four premium deep-cycle batteries.
- ✔ 1.5 HP single-phase 120V electric motor with variable displacement pump.



5 HP High-Efficiency Variable Displacement Power Unit

For use with several Marathon self-contained compactor models and the Marathon RJ-225GB stationary compactor.

- ✔ Environmentally friendly biodegradable hydraulic fluid.
- ✔ Offers speed and performance comparable to 10 HP units while using 50% less power/energy.
- ✔ Available for self-contained compactors, stationary compactors, and vertical balers.

Compactor Rental and Leasing Programs Available

For detailed specifications, recommendations, or free economic studies comparing various systems, contact Marathon's Technical Specialists at **1-800-633-8974**.



Authorized Dealer:

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Features 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 regulation Z245.2, all applicable OSHA standards, and certified under WASTEC's Stationary Compactor Certification Program. Products must be used with safe practice and in accordance with all applicable regulations and standards.

