



# 100% Solar and Solar-Hybrid Powered Compactors

*Compact refuse using the power of the sun*

*Eco-friendly 100% solar or solar-hybrid power*

*Use less energy than conventional power units*

*Reduce installation costs*

*Favorably impact LEED certification applications*



Patents Pending



**Environmental Solutions Group**

A DOVER COMPANY

2011  
PRODUCT SHEET

*Hospitals*

*College Campuses*

*Green Buildings*

*Fast Food  
Restaurants*

*Retail Stores*

*Convenience Stores*

*Gas Stations*

*Remote Parking Lots*

*Parks and Recreation  
Facilities*

## Marathon 100% Solar or 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 and solar-hybrid compactors is a first in the industry.

The 100% solar-powered models compact refuse using the power of the sun for true independence from the power grid and its associated costs.

The solar-hybrid models connect to the power grid as a backup that automatically switches when necessary. When in solar mode, the compactor uses no AC power. When in hybrid mode, the compactor uses much less energy than conventional power units. The batteries recover as the compactor continues to be available for operation.



Marathon is the first to incorporate sustainable solar power 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 power unit
- ▼ Biodegradable hydraulic fluid



#### Green Built® Pak'ntainer®

- ▼ Solar power unit
- ▼ Biodegradable hydraulic fluid



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

# SOLAR AND SOLAR-HYBRID COMPACTION

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

Green Built® Solar Power Unit Specs	
<b>Electric Motor</b>	120 VAC
<b>Batteries</b>	Powered stored in 4 premium deep cycle batteries (2 for Hybrid VIP, 3 for 100% Solar VIP)
<b>Key Operated Control Station</b>	Yes
<b>Hydraulic Pump(s)</b>	Multi-stage
<b>Pressures &amp; Forces</b>	Same as Standard Units
<b>Hydraulic Fluid</b>	Biodegradable

## Patents Pending 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 Specialist at **1-800-633-8974**.

For Product Literature, call **1-800-269-7237**.



## Authorized Dealer:



**Marathon Equipment Company**  
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[www.marathonequipment.com](http://www.marathonequipment.com)  
[www.nexgenbalers.com](http://www.nexgenbalers.com)



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