

SPECIFICATIONS
GREENBUILT
SOLAR POWERED PACK
RJ-250SC 48" FH - 34 CY
2/10/2010

SPECIFICATIONS FOR ROLL-OFF COMPACTOR/CONTAINER

GENERAL

Furnish a self-contained on a 23' roll-off understructure, operated by a remote, solar powered, hydraulic power pack with no electrical connections (except for low voltage interlock) to the compactor/container skid. A liquid sump capacity will be maintained to be no less than 37 13/16".

Any particles or liquid which seep around the bottom or sides of the ram shall automatically drain back into the container by means of a passage-way under the packing head. This area behind the ram shall be accessible for washing by means of removing a small panel. Overall empty weight not to exceed 10,500 lbs. Overall dimensions shall not exceed 22'-5" in length, 8'-0" in width or 8'-8" in height.

COMPACTOR-HEAD

1. Charge box capacity shall be a minimum of 1.31 cu. yds. with a clear top opening of 41" x 58".
2. Loading height into the charge box shall be a maximum of 4' from ground level.
3. Refuse shall be charged into the attached container by a covered ram with 3/8" steel face plate. This ram system is to be guided and supported by four replaceable cast iron shoes (two on each side). The ram actuating cylinders are to have 4" bores with minimum strokes of 31 5/8" each.
4. The charge box walls shall be of 1/4" steel plate formed so that it provides guide channels for the ram. Guide channels shall have replaceable steel wear strips. Walls shall be reinforced by two (2) (one on each side) 6" x 4" x 3/16" formed steel posts and two (2) (one each side) 6" x 4" x 3/16" steel horizontal post. The charge box floor shall be a minimum of 3/8" steel.
5. The compactor unit shall be furnished with a remote power pack complete with a 1 1/2 HP AC motor coupled with a 3 GPM Hi/Lo pump. This remote power pack includes two solar charging panels, four premium deep cycle batteries, a PLC (Programmable Logic Controller), a solar panel controller, an inverter, and pushbutton controls. The controls shall consist of start, reverse, and stop buttons.
6. The power pack shall be capable of completing a full cycle in 70 seconds under no load and exerting a minimum force of 46,500 lbs. (at 1850 PSI) on the ram blade face and have no limit switches to fail. Control system shall be timer activated and so designed to allow the hydraulic fluid to bypass at each end of the cylinder stroke for smooth operation. Unit shall have regenerative hydraulic circuit.
7. The unit shall be certified to be in compliance with ANSI Z245.2-2008.
8. The unit shall have means of switching from battery power to grid power during extended periods without sun.

NON-DETACHABLE CONTAINER

1. Total capacity of the system shall be 34cu. yds. and the container shall be of 7 GA.. steel plate (floor and sides). Top to be 11 GA. broken and assembled in such a manner that an octagon is formed resultant in sides that require no vertical reinforcements.
2. The tailgate door assembly shall have a bustle design with 7 ga. and 11 ga. hi tensile rolled plate. Framing of door to be 1/4" plate backed by 1/4" formed plate.
3. Tailgate shall have 2 hinges minimum. Each hinge shall have 2 pivot axes in order to actuate uniform seal compression. Hinges shall utilize bronze bushings and shall also contain grease fittings.
4. A heavy duty rubber seal will be provided between container and door that should be full. The seal should be on the door to protect it from refuse. Seal should be easily replaceable with only hand tools.
5. A door closing mechanism controlled by ratchet shall be provided in order to properly compress the door seal with the ability to reach out and grab a door lug.
6. Cushioned Ground Rollers to reduce noise during pick-ups/drop-offs and less stress on pad thereby extending its lifespan.

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	Standard	Metric
Charge Box Capacity (Mfrs. Rating)	1.7 cy.	1.30 cu.m.
Total Capacity	34 cy.	26 cu.m.
Clear Top Opening	41" x 58"	1041mm x 1473mm
Loading Height	48"	1219 mm

PERFORMANCE CHARACTERISTICS:

Cycle Time	70 sec.	70 sec.
Total Normal Force	46,500 lbs.	207 KN
Total Maximum Force	49,000 lbs.	218 KN
Normal Ram Face Pressure	31.7 PSI	218 KPa
Maximum Ram Face Pressure	33.4 PSI	230 KPa
Ram Penetration	6"	152 mm

ELECTRICAL EQUIPMENT:

Required electrical power:	30 A, 120 VAC	
Electric Motor: 1/60/120	1 ½ HP	1.1 KW
Electrical Control Voltage	24 VDC	24VDC
All Circuits Fused		
3 Push Button Station Key Operated Start, Stop, Reverse		

HYDRAULIC EQUIPMENT:

Hydraulic Pump	3 GPM Hi/Lo	11.36 liters/min Hi/Lo
Normal Pressure	1850 PSI	127.5 bar
Maximum Pressure	2000 PSI	137.9 bar
Hydraulic Cylinder (2) Bore	4"	102 mm
Rod	2 1/2"	64 mm