

SPECIFICATIONS

GreenBuilt Solar Hybrid Powered Self-contained Compactor/Container for Front Loader Container Handling Systems

The intent of these specifications is to describe a compactor which is permanently mounted on 4 heavy steel columns and which compresses waste material into a detachable container located underneath the compactor. It shall have a minimum charge box capacity of .54 cu. yd. The unit shall be certified to be in compliance with ANSI Z245.2.

The container shall be designed for use with front loader trucks and shall have a minimum capacity of (4)(6)(8) cu. yd. The sides, floor and ends of the container shall be constructed of 11 gauge hi tensile steel; all adequately reinforced to readily withstand the compaction forces.

Disconnecting hoses, electrical plugs or lid latches for removal and emptying the container shall not be permitted.

The compactor shall have a feed door hinged at the side to facilitate opening and closing. The door shall be a minimum of 28" high x 48" wide and be equipped with a spring-loaded latch.

The compacting ram shall be a minimum of 36" long x 48" wide and shall exert a minimum total force of 26,380 lbs. against the refuse. When in operation the ram shall penetrate a minimum of 18" into the container. When retracted it shall afford a clear opening 26" high. The power pack shall be capable of completing a full cycle in 30 sec. under no load.

Controls

1. Unit shall be equipped with a means of stopping and controlling the ram for emergencies.
2. A light and electrical interlock shall be provided to indicate that the container is full and prevent operating the machine until removing and emptying the container. Returning the empty container to its proper position shall be operable only by key in order to prevent unauthorized operation.
3. Interlocks shall be provided to prevent operation when:
 - a. The charging chamber door is open
 - b. The container is not in place
 - c. The container is filled
4. A means of preventing opening of the charging chamber door while ram is moving shall be provided.
5. A means of automatically warning personnel that the ram is inside the perimeters of the container shall be provided.

6. The normal position of the ram shall seal the top of the container.

Hydraulic

1. Pump shall be 3 GPM Hi/Lo.
2. It shall be equipped with a hydraulic cylinder having a 4" bore and a 2" rod diameter.
3. The hydraulic system shall be equipped with a suction screen.
4. The power unit, along with the control panel box, shall be self-contained within the body to shield it from weather and prevent tampering by unauthorized personnel.

Electrical

1. Motor shall be $\frac{3}{4}$ HP, 120 VAC, Single Phase
2. Batteries- two premium deep cycle 12 volt .
3. A solar panel and solar panel controller shall be included for battery charging.
4. A separate panel box located outside the compactor body shall contain an inverter & the solar panel controller.
5. A single oil heater shall be provided for optional use in cold weather applications. (Grid power shall be incorporated for oil heater.)
6. Unit shall have a means of switching from battery power to grid power during extended periods without sun.
7. Unit shall be capable of operating on 20A, 120VAC grid power.