APPROACH SPECIFICATIONS

COMPACTION TERMINOLOGY

Compaction – Reducing the size and volume of material by compressing and crushing.

Stationary Compactor –

A machine that compacts refuse into a detachable container at the site of generation.

Pre-Crusher Dry Waste

Compactor – A machine that pre-crushes large bulky items such as steel drums and pallets prior to being compacted into the container.

Compaction Container -

A steel reinforced container into which a stationary compactor compacts refuse.

Self-Contained Compactor -

A unit in which the compactor is integrated structurally to the compaction container and the entire machine is taken to the disposal site.

Charge Box - The area, measured in cubic yards, in front of a compactor ram into which refuse is placed (L x W x H).

ClearTop Opening – The length and width of the opening above the charge box.

Cubic yard = 202 gallons

(Approximate equivalent of six 33-gallon bags or seven 30-gallon bags)





COMPACTOR INSTALLATION

Concrete Pad Concrete pad preferred dimensions are 10' wide and a length of 5' greater than the combined length of the compactor and container (not enclosed). Examples:

- Pad: 10' wide x 40' long for 2 cu. yd. stationary and container
- Pad: 10' wide x 35' long for 35 cu. yd. self-contained
- Pad: 10' wide x 12' long for vertical compactor
- The pad should be a minimum of 3,000 p.s.i. concrete, wire mesh reinforced and 6" thick.

Electrical A lockable fused disconnect box (customer furnished) must be within sight and no more than 50' away from the main control panel.

This equipment conforms to all applicable ANSI Z245.2/.21 Safety Standards.

Safety Standards The installation must comply with recommended ANSI and OSHA standards. There must be interlock switches on the hopper access gate or chute/ doghouse doors. A "Hold to Run" button may also be required.

Compaction Containers Available in octagonal and rectangular styles from 20 to 40 cu. yd.

Emergency Controls E-stop controls should be readily accessible to the operator or located within 3' of the point of operation, the material feed area, or if chutefed, within 3' of access door.



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THE BENEFITS OF

SAVES MONEY • IMPROVES SAFETY • ENHANCES AESTHETICS • INCREASES USABLE SPACE





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WHN NEEDS A **COMPACTOR?**

COMPACTION ADVANTAGES

1 SAVES MONEY

- · Less Labor. No need to break up boxes or carry trash outside to container.
- Reduces Collection Costs. Reduces the cost of transporting refuse to the disposal site. A compactor can eliminate 3 out of 4 trips.
- Reduces Fire Hazards. Saves on insurance costs.
- · Reduces Insect/Rodent Problems. No need to call an exterminator.

TYPES OF COMPACTORS

Compacting waste reduces the size and volume of material through compressing and crushing. This reduces the number of hauls, saving money.

Not all generators of solid waste and recycling material can justify compaction equipment. A business with one 6 cubic yard container emptied once a week may not need a compactor. Larger volume waste and recycling generators are more likely prospects. A generator of 30 to 40 cubic yards of material weekly might justify a vertical compactor. One that generates 60 to 150 cubic yards weekly could use a stationary compactor with a detachable container or a self-contained liquid-tight compactor.

2 IMPROVES SAFETY AND SECURITY

- Prevents Unauthorized Access To Waste. A sealed container keeps others from viewing any confidential data. A steel security chute prevents merchandise from being taken out the back door.
- Avoids Unauthorized Disposal. Prevents others from using your container for disposal of their trash or hazardous waste.
- Discourages Scavengers. Keeps scavengers out of your container.
- Improves Safety. Enclosed or chute fed compactor eliminates need for employees to take material outside.

3 IMPROVES AESTHETICS

- Prevents Wind-Blown Trash. Reduces need to sweep parking lots.
- Controls Odor. A sealed compaction system reduces odor.
- · Extends Pavement Life. Reduces wear and tear on parking surfaces by heavy collection vehicles.

- Saves Inside Storage Space. No need to use storeroom space for refuse.
- containers outside means more customer parking spaces.

A COMPACTOR WORKS?

A compactor consists of 5 basic parts:

- 1. The Body is a steel structure which houses all the other parts. It has an area where material is compiled or CHARGE BOX with heavily reinforced sides to withstand the forces of compaction. A BREAKER BAR, made of a heavy steel angle, is located across the front of the charge box. This bar breaks oversized objects like wood or pallets before they enter the compaction container
- 2. The Ram is a specially designed steel structure with heavy face plate. It moves horizontally through the charge box, forcing the refuse into the compaction container.

Charge box



Stationary

WASTE TYPE: Dry waste including mixed paper, corrugated, wood, plastic, etc. **APPLICATIONS:** Retail/department stores, industrial, warehouses SIZES: 2 – 15 cubic yard stationary is attached to a 40 cubic vard container



Accu-Pak or Pack-Man

WASTE TYPE: Primarily wet waste and food waste with a few dry applications

APPLICATIONS: Fast food, restaurants, nursing homes, small grocery stores

SIZES: 3, 4, 6 and 8 cubic yard units

Considerations when choosing a compactor

Volume of Waste Generated Will the compactor be adequate to handle the volume generated, particularly at peak loading times?

Size of Waste What are the dimensions of the largest box, bag, etc.? Is the clear top opening large enough to accommodate these objects without bridging?

Type of Waste Dry waste is efficiently compacted by a stationary compactor. Wet waste is best handled by a self-contained, liquid-tight compactor.

Ease of Use Is the compactor conveniently located? What is the loading height? Does it save steps and labor? Is it easy to feed?

adequate?

Collection Equipment Compatibility Is the compactor compatible with local waste collection equipment?

Installation Does installation require a thru-the-wall chute, a doghouse, or a dock-fed hopper? Is the compactor adaptable to these types of installations?



Self-Contained

WASTE TYPE: Wet waste including food processing, medical, etc.

APPLICATIONS: Supermarkets (produce/meat waste), restaurants, malls, hospitals

SIZES: 20, 30, 35 cubic yard self-contained

4 INCREASES USABLE SPACE

- Saves Outside Parking Space. Fewer





boxes. Cylinders are sized by bore and rod diameters.

- 4. The Power Unit consists of a hydraulic oil tank, pump, electric motor, and directional control valve. The oil, under high pressure, forces the piston in the cylinder to move forward and backward.
- **Clear top**
- opening

5. The Electric Panel Box contains the transformer. motor starter, relays, fuses, and switches that operate the compactor. Most panel boxes incorporate printed circuit boards or programmable controllers for added reliability. All should be UL rated.



Is one central point adequate or should several locations be considered?

Available Space Is there space for the compactor and collection truck to service the compactor? Are overhead clearances

Suitable Voltage Is adequate power available? Three-phase? Single phase?

COMPACTION RATIO

The average compaction ratio for compactible, mixed waste is 4 to 1.

he amount by which a compactor will reduce the volume of solid waste depends on several factors:

- Type of refuse
- Total force of compaction RAM
- Type of compaction container

Example:

You could expect to compact 160 loose cubic yards of mixed waste into one 40 cubic yard container.

Exceptions to the 4 to 1 ratio:

Industrial waste consisting mainly of pallets and heavy boxes might yield only a 2 to 1 compaction ratio. Climate affects compaction ratio (frozen garbage is more difficult to compact than wet garbage). Consider ALL variables before estimating the compaction ratio for a specific application.