



## SECTION 11172 - WASTE COMPACTOR

This section is based on equipment produced by:

**VERTICAL WASTE SOLUTIONS LLC.**

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Texas, USA

### Part 1 –GENERAL

#### 1.1 DESCRIPTION

- A. Furnish and install waste compactor Model: VWS60 and ancillary equipment as indicated on the Drawings and as specified within.

#### 1.2 RELATED WORK SPECIFIED ELSEWHERE

- A. Concrete work - Section 03300 "Cast in Place Concrete"
- B. Garbage Chute - Section 11175 "Chutes and Collectors".
- C. Electrical wiring to control panels, and wiring from control to disconnect box panels - Division 16 "Electrical"
- D. Floor drains and hose bibs - Division 15 "Mechanical"

#### 1.2 QUALITY ASSURANCE

- A. Workmanship shall be of the highest quality, in accordance with best standard practices for installation of this equipment. Execute work in accordance with drawings, specifications, and manufacturer's printed directions.
- B. The equipment shall comply with the requirements of all local Code inspection requirements.
- C. Equipment shall be approved by the Electrical Safety Authority having jurisdiction.
- D. Manufacturer shall have at least 5 years experience in the manufacture of the specified equipment and shall provide a warranty for 1 year after installation of equipment.
- E. The work in this section shall be subject to all applicable provisions governing building codes and ordinances.

### 1.3 SUBMITTALS

- A. Product Data: Submit manufacturer's product specifications, performance data sheets and installation instructions.
- B. Shop Drawings: Submit plans, elevations, and details for work not fully shown by published product data; include rough in dimensions and service connection.

### 1.4 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Protection: Equipment shall be protected at all times from physical damage, dirt, water etc.
- B. Under no condition shall the compactor be used for construction garbage, or any other use other than what it was intended for.

## Part 2 - PRODUCTS

### 2.1 COMPACTOR

- A. Apartment Compactor: VERTICAL WASTE SOLUTIONS model VWS60 or VWS52 fully automatic, electric eye controlled, hydraulically operated, stationary ram compactor with a 38 second cycle time, displacing garbage into a heavy duty compaction container of a design compatible with local requirements. CSA approved control.
- B. The compactor body and top is 1/4" inch steel plate, while the sides are 1/4" inch steel plate. The compactor ram is constructed of 1/4" inch sides and top with 1/4" inch steel plate bottom. The ram face is 1/4" inch steel plate, reinforced. The hopper is made 10 gauge steel plate with a 1/4" inch slope to take the impact of falling refuse. The compactor floor is 1/4" inch thick steel. The VWS60 produces 8,500 pounds of packing force at 800 psi. (5500 kPa).
- C. Hydraulic Power Packs: A prepackaged power system with components rated at 3000 psi operating at a recommended pressure of 800 psi for long life and low maintenance. Power- 208V, 3 phase, 4-wire, 60 Hz. Motor – 2 HP @ 1800 RPM.
- D. Control panel to be part of the power pack, located on either side of the compactor and including:
  - a. On/off power switch
  - b. Power on light
  - c. Full light
  - d. Full load reset cycle
  - e. Automatic continuous cycling when electric eye is activated
  - f. Automatic shut off when container is full
  - g. C.S.A. and Electrical Safety Authority approved controls
- E. Optional: Recycling Containers: Industry standard 95-gallon containers or VWS dual FEL containers, or 2/3 cubic yard (2.29 m<sup>3</sup>) containers for recyclables (commingled or paper/container streams depending on municipality). VWS assumes developer is in compliance with local development by-laws dealing with new developments. 6x2"

polyurethane wheels with casters, 2 swivel, 2 fixed. Tow hitch included. Painted blue.

- F. Optional: Organics Containers: Industry standard 95-gallon containers or VWS dual FEL containers, or 2/3 cubic yard (2.29 m<sup>3</sup>) containers for organics. VWS assumes developer is in compliance with local development by-laws dealing with new developments. 6x2" polyurethane casters to be used. Tow hitch included. Painted green.
- G. Optional: Garbage compaction containers: 3 cubic yards, front end loading, length 78" inch, width 47" inch, height 60" inch (overalls indicated), fully welded bottom and sides, reinforced 10 gauge steel plate. 6x2" polyurethane casters, 2 swivel, 2 fixed. Designed to mate with VWS60 or VWS52 compactor, with reinforced floor and lift pockets, and standard "hold down bar" on double steel lids included. Containers will be 12 gauge steel sides, 10 gauge steel bottom, 14 gauge steel lids, 10 gauge steel channels, and 10 gauge steel charging door. VWS assumes developer is in compliance with all local development by-laws dealing with new developments. Tow hitch included on containers. Painted black. Finish: A shop finish inside and out with corrosion resistant paint.
- H. Optional: VWS Chute Blocker – Designed to assist in safely performing maintenance functions in the garbage room by allowing the operations staff to manually close off the garbage chute to prevent materials from falling into compactor, recycling or organics containers.
- I. Optional: Odor Control System: Supply VWS odor control system in appropriate garbage room location. 110V standard electrical plug furnished by others.
- J. Optional: Bin Buddy – Supply VWS Bin Buddy mover. Dual-speed, dual directional walking speed device for garbage, recycling and organics container movement. Equipped with belly stop, E-stop, horn, voltage & battery indicator, and soft-take off features.

### Part 3 - EXECUTION

#### 3.1 INSPECTION

- A. Inspect the areas and conditions under which units are to be installed. Do not proceed with the work until conditions are satisfactory.

#### 3.2 INSTALLATION

- A. Compactor shall be installed in accordance with approved drawings.
- B. Field assembly work: perform minor field assembly work to install certain fragile or projecting parts that were not installed at the factory.
- C. Set each component of work securely and accurately, level and properly aligned with other components and other work. Anchor as required for secure operation.

#### 3.3 TESTING AND INSTRUCTIONS

- A. Test each item of operational equipment. Provide maintenance manual. Instruct Owner's operation personnel in proper use and maintenance of equipment.

**\*\* END OF SECTION \*\***