

SECTION 11170 / 11172

REFUSE COMPACTOR

This section is based on a system produced by:

Metropolitan Compactor Service Corp.

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Part 1 – GENERAL

1. GENERAL REQUIREMENTS
 - A. Work of this section, as shown or specified, shall be in accordance with the requirements of the Contract Documents.
2. DESCRIPTION OF WORK
 - A. Work of this Section includes labor and material necessary to install refuse compactor(s), as shown on plans and as specified below.
3. RELATED SECTIONS
 - A. Division 11 or Division 14 – “REFUSE CHUTES”
 - B. Division 15 – Plumbing connections
 - C. Division 16 – Electric service and connections
4. SUBMITTALS
 - A. Provide product specification or data sheets prior to fabrication or delivery of materials.
 - B. Provide shop drawings as necessary for equipment details not be included in the product data.
 - C. Provide maintenance and operation manuals for equipment installed.
5. QUALITY ASSURANCE
 - A. Refuse Compactor Standards: Comply with applicable standards as follows:
 1. NFPA 82 Chapter 7 - “Waste Compactors”
 2. ANSI Z245.2 - “Stationary Compactors – Safety Requirements for Installation, Maintenance and Operation”
 - B. Electrical Component Standards: Electrical components to comply with NFPA 70 and “National Electrical Code”, and also to bear UL labels where applicable.
 - C. Qualifications:
 1. Minimum five (5) years experience producing and installing products specified.
 - D. Pre-installation coordination:
 1. Meet at job-site prior to fabrication of materials in order to verify field conditions and

installation details. Notify job-site coordinator of necessary related work to be performed by others.

6. RELATED WORK BY OTHERS

- A. The following related work is excluded from the scope of work for this section 11170:
 - 1. Installation of Electric Disconnect Switch located within 5' of hydraulic power unit.
 - 2. Sprinkler connections in hopper of compactor as required.
 - 3. Operational floor-drain in compactor room.

7. EQUIPMENT DELIVERY AND STORAGE

- A. Provide adequate access for delivery and installation of equipment, including elevator access as required.
- B. Compactor shall not be used for any construction trash.
- C. Compactor shall be protected from damage by construction debris, dirt and/or water.

8. WARRANTY

- A. Provide manufacturer's standard one (1) year warranty from date of initial occupancy or initial use of refuse chute. Warranty shall apply only to defects in materials and workmanship provided for products in this section.

Part 2 – PRODUCTS

1. SUPPLIER

- A. **Metropolitan Compactor Service Corp.**
www.metropolitancompactor.com

2. COMPACTOR

A. General operation:

- 1. The Model No.(s) 4000/4500 Compactor is a hydraulically operated horizontal extruder-type unit. Compacted refuse can be extruded into continuous plastic tubing, individual plastic bags or reusable 2 cubic yard containers.

B. Features include:

- 1. Compactor body, ram extrusion nozzle and compaction chamber are integrally welded of high abrasion resistant steel. Compactor body – minimum. 3/8" thickness including replaceable wear plate. Compaction ram – minimum. 3/8" thickness with 1" thick ram face plate. Hopper – 11 gauge with 1/4" thick impact plate.
- 2. Motor 208/220/440 volts, 3 phase, 60 cycles, 1750 RPM. Control circuit (fused): 115 volts. All wiring in liquid-tight (3/8") flexible metal conduit. Control panel includes 5 amp fuse for control circuit, with power OFF-ON switch and reverse switch.
- 3. Hydraulic cylinder – 5" diameter bore and 28" stroke. Hydraulic hoses – 3/8" (SAE 100 R-8) 4000 psi working pressure. Hydraulic pump, vane pump. 5.2 GPM. Hydraulic reservoir: 12 gallons within 10 micron suction strainer, breather cap, and oil level indicator.
 - a. All components have minimum 4 to 1 safety factor for burst pressure.
 - b. Compacting ratio: approximately 5 to 1.
- 4. Safety features include emergency stop switch, hopper door switch and manual shut-off

gate.

Part 3 – EXECUTION

1. INSPECTION OF FIELD CONDITIONS
 - A. Inspect the compactor room, delivery conditions and access areas prior to delivery. Ensure equipment can be safely delivered, maneuvered and installed.
2. INSTALLATION
 - A. Compactors shall be installed in accordance with field conditions, approved drawings, and regulations.
 - B. Compactor shall be positioned in a manner that maximizes the flow of refuse and allows adequate access for operation of equipment.
 1. Access must be provided for installation AND future maintenance of equipment. In some cases, access doors must be provided. (by others)
 - C. Fabricate a transitional section between the hopper and the chute discharge.
 - D. Complete all mechanical, hydraulic and electrical connections required.
 - E. Anchor equipment in place.
3. START-UP & DEMONSTRATION
 - A. Start equipment and test operation of all safety and operational devices.
 - B. Provide operation and maintenance manual to building personnel. Demonstrate and instruct proper use and maintenance of equipment.