

SECTION 118226 - FACILITY WASTE COMPACTORS

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes waste compactors.
- B. Related Sections:
 - 1. Section 149100 – Refuse Chutes.
 - 2. Division 21 – Fire Suppression.
- C. Reference and Industry Standards
 - 1. The following reference standards shall be applicable to this Section:
 - a. New York City Fire Code, current edition, as amended.
 - 2. Industry Standards
 - ANSI (American National Standards Institute)
 - NFPA (National Fire Protection Association)

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Shop Drawings: For each installation and for special components not dimensioned or detailed in manufacturer's product data. Include plans, elevations, sections, details, and attachments to other work.
 - 1. Dimensions locating chutes that interface with waste compactors.
 - 2. Location and installation details of automatic sprinkler in hopper of each chute-fed compactor.
 - 3. Equipment access points and required space for equipment service and operation.

1.3 INFORMATIONAL SUBMITTALS

- A. Product certificates.
- B. Field quality-control reports.

1.4 CLOSEOUT SUBMITTALS

- A. Operation and maintenance data.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: Manufacturer's authorized representative who is trained and approved for installation and maintenance of units required for this Project.
- B. Compactor manufacturer shall have been in business for at least five (5) years making approved commercial and/or industrial compactors.
- C. Waste-Compactor Standards: ANSI Z245.21 [**including annexes**] and NFPA 82.
- D. Waste-Container Standards: ANSI Z245.30 and ANSI Z245.60.

PART 2 - PRODUCTS

2.1 WASTE COMPACTORS

- A. Waste Compactor: Manufacturer's standard [**stationary-horizontal**] [**self-contained horizontal**] [**combination-container**] [**vertical**] [**pivoting-ram**] <Insert type>-type stationary compactor, complying with requirements [, **liquidtight**], and with components, options, and accessories needed to provide a complete, functional system.
 - 1. WASTEC-Rated Size (Volume): Minimum [**0.14 cu. yd.**] [**1.00 cu. yd.**] [**1.50 cu. yd.**] [**2.00 cu. yd.**] [**3.50 cu. yd.**] [**5.00 cu. yd.**] [**7.50 cu. yd.**] [**10.00 cu. yd.**] <Insert volume>.
 - 2. Throat charging area: Minimum [**18 by 24 inches**] [**22 by 24 inches**].
 - 3. Hopper charging area: Minimum [**23 by 29 inches**] [**23 by 48 inches**].
 - 4. Overall Dimension
 - a. MP8TE: **72 by 62 by 33 inches**
 - b. MP8: **93 by 66 ½ by 33 inches**
 - 5. Finish: Manufacturer's standard.
 - 6. The compactor shall be hydraulically operated Ram-Type compactor. The ram housing, compaction chamber and discharge tube shall form an integrally welded body of high abrasion-resistant steel. Ram face shall be minimum 3/4" steel plate.
 - 7. Hydraulic power pack shall be 3000 psi system operating at an average of 2000 psi.
 - 8. Motor shall be 2 HP, 1800 RPM, 120/208 volt 3 phase, 60 HZ complete with motor starter. Control and logic circuit shall be 115 volt.
 - 9. Automatic refuse sensor shall be a photo-electric receiver with solid state components.
 - 10. Normal standby position of ram shall be fully retracted to allow refuse to fall as deep into chamber as possible. This is to prevent refuse from "bridging."
 - 11. Capacity:
 - a. MP8J: shall be approximately 1200 lbs. per hour (based on average weight of 125 lbs per cubic yard of loose refuse).
 - b. MP8TE: shall be approximately 1375 lbs. per hour (based on average weight of 125 lbs per cubic yard of loose refuse).
 - 12. Automatic insecticide and deodorizer dispenser shall be a spray, activated by automatic solenoid, using a non-toxic to potable water based insecticide concentrate.
 - 13. The compactor logic controls shall be accomplished by means of programmable micro-processor control system to achieve desired inputs and outputs between controller and controlled components: Multi-Pak Corporation, Model 2000 programmable controller.
- B. Fabricate liquidtight compactor baffles to stop liquid from leaking out.

- C. Number of Extra Storage Containers: Two.
- D. Field fabricated transition section [with rotary supply].
- E. Compactor shall be compatible with either bags including run-off track or reusable 2 cubic yard containers as shown on drawings.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install each waste compactor according to manufacturer's written instructions, ANSI Z245.2, and ANSI Z245.21 [**including annexes**].
- B. Prior to shipping the compactor shall be factory wired and pre-tested. Disassembled components shall be of sections which will pass through standard size door openings.
- C. The compactor shall be rigged and set in the designated area and completely connected to the refuse chute by a field fabricated transition section between the compactor and the lower termination of the refuse chute.
- D. Install automatic sprinkler in hopper of each chute-fed compactor according to NFPA 82.
- E. Compactor shall operate in compliance with all NYC Agencies having jurisdiction.
- F. Compactor shall be completely installed and provided with accessories required for a complete installation. Compactor shall be completed with all safety and fire sensing devices and controls including:
 - 1. Motor overload protection.
 - 2. Control circuit protection
 - 3. Tamper proof hopper access door switch (shuts down machine operation when door is opened.
 - 4. Solenoid activated fire system.
 - 5. Emergency stop on/off button.
- G. The entire controller shall be housed in a standard enclosure, the door of which allow the indicators to show through a laminated 1/4" Lexan panel that has all switches and indicators labeled in English and Spanish by silk screen from the inside to eliminate the possibility of labels becoming worn off.
- H. To prevent compaction of unauthorized refuse such as building material, installation shall start after receipt of the certificate of occupancy and shall be completed in five (5) working days.

3.2 FIELD QUALITY CONTROL

- A. Perform tests and inspections.

1. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect components, assemblies, and equipment installations, including connections, and to assist in testing.

B. Tests and Inspections:

1. Perform installation and startup checks according to manufacturer's written instructions.
2. Test and adjust controls, alarms, and safeties. Replace damaged and malfunctioning controls and equipment.

C. A waste compactor will be considered defective if it does not pass tests and inspections.

D. Prepare test and inspection reports.

3.3 DEMONSTRATION

- A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain waste compactors according to manufacturer's requirements and ANSI Z245.2.

3.4 WARRANTY

- A. Full maintenance for ninety (90) days after date of start-up and one year warranty against defects in workmanship or material

END OF SECTION 118226