

## **BID SPECIFICATIONS**

### **SP INDUSTRIES, INC., MODEL CP-2201**

#### **HEAVY INDUSTRIAL, STATIONARY REFUSE COMPACTOR**

It is the intent of this specification to describe a stationary refuse compactor with the following specifications considered necessary to perform the work assigned, and is the product of a manufacturer actively engaged in the production of stationary refuse compaction equipment and will embody their latest improvements in design and construction.

#### **I. COMPACTOR**

##### **A. Type:**

1. Manufacturer's rating: 2 cubic yard capacity
2. WASTECC rating: 1.76 cubic yard capacity (compactors which are not WASTECC rated are not acceptable)
3. Heavy industrial single cylinder design

##### **B. Model: SP Industries Inc. CP-2201**

##### **C. Warranty: (3) three year warranty on ram and frame weldment, (1) one year warranty on electrical and hydraulic equipment, parts and labor**

#### **II. CAPACITIES/DIMENSION**

##### **A. Chamber Capacity: 2 cubic yards**

##### **B. Chamber Opening: 49" x 60"**

##### **C. Compaction Force: 56,500# Max.**

##### **D. Ram Penetration: 26"**

##### **E. Cycle Time: 49 seconds continuous under load**

##### **F. Displacement Per Hour: 129 cubic yards**

##### **G. Hydraulic Oil Reservoir: 40 gallons or 2.5 gallons for every 1 GPM of pump output**

##### **H. Ratchet Binder Hooks: 160,000# ultimate load capacity each**

##### **I. Hydraulic Cylinder: (1) 6" bore x 4.5" chrome plated rod w/cast iron rings x 74" stroke**

#### **III. FRAME CONSTRUCTION**

##### **A. Floor: 3/8" AISI AR 235 work hardening steel plate**

##### **B. Floor Supports: (5) C 3" x 4.1# structural steel channel & (1) TS 6" x 3" x 1/4" structural steel tube (formed steel supports are not acceptable)**

##### **C. Sides: 3/8" A36 steel plate**

D. Side Supports: TS 6" x 4" x 1/4", TS 6" x 3" x 1/4", TS 3" x 3" x 1/4" structural steel tubes & (1) C 6" x 13# structural steel channel (formed steel supports are not acceptable)

E. Breaker Bar: 1-1/2" x 10" vertical bar & 1" x 8" horizontal bar weldment

#### **IV. RAM CONSTRUCTION**

A. Face: 3/4" A36 steel plate

B. Floor: 5/8" A36 steel plate

C. Sides: 3/8" A36 steel plate

D. Top: 1/2" A36 steel plate

E. Top Supports: (12) C 4" x 5.4# structural steel channels (formed steel supports are not acceptable)

F. Guides: Three adjustable Nylatron blocks on each side adjusted to contact a TS 4" x 3" x 1/4" structural steel tube mounted on the side of the compactor. One block travels along the outside of the tube to eliminate ram fishtailing the other two travel along the top and bottom to eliminate ram bucking.

#### **V. POWER UNIT**

A. Type: Remote with controls mounted in a remote control head on 10' of cable, including a key lock start and emergency stop button with a full/jam auto shut off indicator light. Included in the main panel are automatic multicycle, auto/sustained-manual-pressure selector switch, ram position switch, automatic safety retract, full/jam auto shut off and keyed jog controls. An oil sight gauge w/thermometer is mounted on front of oil reservoir. Entire unit shall consist of American manufacturer, UL listed, parts. (Parts which are not made by American manufacturers or are not UL listed are not acceptable)

B. Electrical

1. Motor: Electric 10 H.P. , ODP, three phase, 208/230/460 tri-volt

2. Starter: NEMA rated

3. Transformer: Machine tool type

4. Ram Directional Switches And Timers: Ram travel, forward and reverse, is controlled by a limit switch which reverses ram directional movement at low system pressures, thus eliminating hydraulic system shock. When the forward movement of the ram is interrupted due to a jam or a full container, a timer, preset up to 60 seconds, reverses the ram movement and shuts down the system.

5. Push Button Controls: NEMA type 4/13 water tight/oil tight

6. Control Panel: UL listed, NEMA rated

C. Hydraulic

1. Pump: 16 GPM, constant displacement, vane pump w/check valve (gear pumps are not acceptable due to noise level during operation)
2. Directional Control Valve: Tapered ports, open center spool to reduce hydraulic system shock
3. Hydraulic Reservoir: 40 gallons or 2-1/2 gallons for every 1 GPM of pump output

**VI. PAINT**

- A. Color: As specified from the standard color sheet
- B. Type: Industrial grade primer with enamel finish

**VII. CUSTOMER TO PROVIDE**

- A. Fused Disconnect Box: A fused disconnect box at the specified size shall be furnished and installed within 10' of the compactor power unit by the customer.
- B. Concrete: A concrete pad capable of supporting the weight of the specified compactor and a suitable container shall be furnished and installed by the customer.

**VIII. DELIVERY**

The compactor shall be completely assembled and prepared for its intended use, including all hydraulic oils, lines, etc., and delivered in a new unused condition 30 days from award of bid. Compactor shall be shipped F.O.B. manufacturer's location.