



HYDRAULIC SYSTEM

YES NO

The unit will be equipped with a single stage engine driven hydraulic pump. The pump will be equipped with a priority flow control device and a dry valve to control the pump. It will deliver a minimum of 36 GPM @ 1000 RPM to be used for compaction and ejection. The first 16 GPM of oil available coming through the flow control device will be used for loader operation. The hydraulic system will allow for full operational speed at idle of 750 RPM for lift without shifting into neutral and will require shifting to neutral at 1000 RPM for full operation of packer or equal design for performance.

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Control of the compaction cycle will be an electric piloted, air actuated, spool type valve. It will have pushbutton operation from inside the cab or equal design for efficiency.

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The body will be equipped with a hydraulic oil reservoir. The tank will have a useable capacity of at least 1-1/2 times capacity of the system and equipped with internal magnetic trap. The capacity will not be less 55 U. S. gallons. The reservoir will have shut off valves on the outlet side of the hydraulic tank. The tank will have an oil sight gauge with a temperature indicator. The top of the oil tank will not exceed 54 inches above ground level for ease in checking and service. There will be a clean out and inspection port on the top of the tank. This port will be secured with studs and nuts with a gasket to prevent leaking. The tank will be pressurized at a regulated 3 to 5 PSI. There will be no entrance of unfiltered air into the tank preventing contamination of the hydraulic oil. The air for use with this system will have its own cleaning system in addition to any air cleaning provided by the chassis manufacturer.

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The hydraulic system will be equipped with a hydraulic oil filter on the return line inside, on the top of the tank and 100 wire mesh suction strainer. There will be a high pressure, in line filter ahead of 10 micron capabilities in the pressure line ahead of the valve sections. The filter will be of the replaceable type, and will be furnished with micron cartridge element. The hydraulic system will be designed to minimize the generation of heat within the system.

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The hydraulic system will have a pressure relief cartridge protection device with maximum system operating of 1800 PSI.

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The compactor hydraulic cylinder will have a minimum 6-1/2 bore, two or four stage double action telescopic, with a 20" overlap when fully extended. The stage will have a minimum 5-1/4 bore. Other design providing comparable performance will be accepted.

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COMPACTION, EJECTION, TAILGATE CONTROLS

The compaction cycle will be controlled with an electric piloted, air actuated, hydraulic spool type valve. The compactor will be equipped with a limit switch and a pressure switch to control the automatic return upon reaching the limit switch or achieving the pressure required. Total compaction cycle will be less than 30 seconds. This cycle is from the front position to a maximum distance of 101 inches to the rear, and return to front of the body.

The tailgate will be hydraulically raised, lowered, and locked, through use of two hydraulic cylinders. The two cylinders will be controlled by an electric piloted, air actuated, hydraulic spool type valve, with push-button controls mounted in the cab within easy reach of the operator. The unit will have an audible warning buzzer when the tailgate is unhooked and while being raised. Two lower locks, 53 inches apart, will lock the tailgate at bottom corners. Raise upward to unlock the tailgate and be totally clear of ejected refuse.

LEAF, GRASS AND LITTER COLLECTOR

POWER TRANSMISSION: From engine to impeller to be by power band 4B drive. This drive shall provide a minimum of 1.14 square inches of positive contact for each single broke horsepower the engine develops when running at its normal operating speed drive to be fully guarded.

To be 10 gauge welded steel. To be fitted with a two piece, .1345 thick abrasion resistant liner. Those liners to be continually supported on all sides and secured without the use of bolts or welding to facilitate ease of removal. Housing to have a 9" X 4-1/2" clean-out opening with door. Full size housing cover plate to be secured by bolting to an external steel flange welded to housing scroll to make removal of housing liners easy. Suction case to have the following minimum dimensions: 47" diameter, 46-3/4" high, 14-1/4" wide. Other designs providing comparable performance will be accepted.

Suction impeller: To be statically and dynamically balanced. To be self-cleaning. To have six (6) gusseted blades with a Brinell hardness of not less than 275 welded to a 29-5/8" diameter convex 3/16" thick backing plate. Suction capability shall not be less than 16,000 C.F.M. at governed operating speeds.