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## **SPECIFICATIONS GIANT-VAC™ MODEL 9900JDT-CM20 MUNICIPAL LEAF LOADER**

**ENGINE:** An 99 hp, 276 cubic inch, 4-cylinder, water-cooled John Deere Tier III turbo diesel engine shall be supplied. It shall be equipped with safety cut-off switches for over-heating, as well as, low oil pressure. Radiator shall be pressurized type and have a 6 blade-cooling fan. Also, a 65 AMP alternator, 12 volt mechanical starter manually controlled variable speed governor, dry type air cleaner, mechanical type fuel transfer pump with hand primer, spin-on type fuel and oil filters. It shall be a closed type power unit, with side panels. Above engine shall also be equipped with an internal balancer to eliminate engine vibration.

**RADIATOR SCREEN:** (Removable) constructed of 1/4" flattened steel mesh and a 13-gauge steel frame.

**ENGINE INSTRUMENT PANEL:** Shall be mounted in their own remote panel directly attached to mainframe. Includes key type ignition switch, ammeter, water temperature and oil pressure gauges and locking T type throttle handle. Also included are hour meter and tachometer.

**ENGINE P.T.O. CLUTCH:** Engine torque to be transferred through a quick acting, over center 11-1/2" clutch, with 13" flywheel. The power take off shaft shall be not less than 2-1/4" in diameter and shall be supported by two 2-1/4" tapered roller bearings.

**ENGINE BASE:** Shall be box type (unitized design) 9-gauge steel specifically designed to above engine.

**FUEL TANK:** Shall be located under the main engine base and be protected on all four sides for safety and shall have a 30 gallon capacity. It shall be all steel (12 gauge) construction and have two internal baffles.

**BLOWER IMPELLER HOUSING:** For the above engine base is bolted to the blower housing. Provisions shall be made so the blower housing can be bolted with exhaust in several positions as follows: In a vertical position for trailer mounted operations; at a 30-degree angle when front mounted. The blower housing shall be a minimum 35" high - 33" across and 12" wide, made of 1/4" steel plate and equipped with a two piece replaceable liner of 1/4" thick steel. The wear liners shall be secured by (12) heat treated alloy steel flat head socket cap screws and lock washer with nuts to provide wear resistance against abrasive materials and for safety reasons.

**IMPELLER:** Shall be 31-1/2" in diameter and will have four blades, not less than 3/4" thick steel. It shall be of welded construction with a back gusset plate not less than 3/16" thick steel and a hub of not less than 4" in diameter. Impeller shall be mounted to a 2-1/4" P.T.O. shaft. Suction capability shall be not less than 22,000 C.F.M.

**IMPELLER TO IMPELLER HOUSING EFFICIENCY:** For the above highly efficient impeller housing shall be designed with no less than 1/2" clearance from the tip of the impeller to the inside of housing. This will prevent excessive material build-up in the impeller housing and to help reduce impeller and impeller housing damage from foreign objects. **IMPELLER AND IMPELLER HOUSING THAT DO NOT MEET THE ABOVE RATIO WILL NOT BE ACCEPTED.**

**INTAKE HOSE AND BOOM SUPPORT:** The intake hose shall be 8 feet long and 18" in diameter. It shall be fabricated of thermoplastic urethane and reinforced with a heat-treated steel coil and outer polyethylene wear strip. (Hose weighing not more than 4.5 pounds per foot.) The pick up end of hose shall be fitted with an 18" round intake nozzle constructed of 16-gauge steel. Nozzle shall have a semi-circular 1" O.D. tube handle grip. The boom pivots on two 1-1/2" diameter flanges bearing over a 10-foot wide path. The hose support boom is spring-loaded with its pivot positions over center of the intake hose for optimum ease in operating. Boom to be 1-1/4" tubular construction and 1/8" wall thickness and shall be not more than 6 feet in length capable of supporting a weight of 175 pounds. The front of the trailer frame shall have provisions to hold the intake hose and nozzle forward for safe transportation.

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**DISCHARGE SECTION:** Shall be direct from the blower housing to the hopper body. It shall be all 9-gauge steel integrally welded, and be 12" square. It shall also have a ¼" bolt-in liner. A straight and curved right angle section plus a breakaway connection for dumping the hopper shall be supplied. The discharge duct shall have provisions so that the debris hopper can be dumped without the removal of the intake hose support boom.

**DEBRIS BOX SUB FRAME:** Shall be approximately 38" wide x 206" long and shall be fabricated from 8" x 3" x ¼" box beams and have two (2) 4" x 2" x ¼" channels to support the dumb hoist.

**HOPPER OR DEBRIS BOX:** Shall be 20 cubic yard capacity and shall be approximately 96" wide by 149" long by 88" high. The hopper floor shall be fabricated in three sections of 10-gauge metal. Each to be unitized in design and electronically welded. The hopper side and front shall be fabricated also in three sections of 13-gauge metal and each section shall be unitized in design and electronically welded. The top of the hopper shall have a replaceable full filter screen fabricated from ¼" expanded mesh metal and a 13 gauge steel channel frame. The hopper shall have a one-piece top hinged rear door with two long coiled springs to assist in opening the door for ease in dumping. A positive locking, easy operated door lock shall be supplied. The hopper shall be self-dumping by a 6" hydraulic cylinder with scissors type construction, which shall have a 36,000 pounds capacity.

**HYDRAULICS:** The unit shall feature a heavy duty D.C. 12 volt self-contained hydraulic power unit. The system shall include pump D.C. motor, reservoir tank, high-pressure hoses, and a valve to power the hopper dump ram.

**LIGHTS:** The unit shall be equipped with lights and reflectors that meet I.C.C. specifications.

**PAINT:** The unit shall be thoroughly cleaned and given two coats of rust inhibitor primer and two coats of Giant-Vac Red finish. The frame shall be painted black. The engine (power unit) shall be painted engine manufacturer standard color.

**OVERALL DIMENSIONS:** Length 208" - width 96" - height to top of box 96", to top of spring holders 106".

**WEIGHT:** 7,400 pounds.

The following is a list of OPTIONAL accessories that can be added to the above Giant-Vac Loader.

Barn-type rear doors  
Paint - custom color  
Amber Strobe Light  
Fuel gauge

Engine-mounted Hydraulic Pump  
Fluid Coupling in lieu of PTO Clutch  
Hydraulic Boom (up/down)