



UltraVac Model T-3000SE Specifications

GENERAL

The UltraVac Model T-3000 is a powerful, efficient, heavy duty, dust free, vacuum module designed to be mounted on a dual axle, heavy duty truck chassis of suitable capacity. The T-3000 provides easy collection and disposal of virtually any dry materials, sludges, slurries, and liquids from remote and inaccessible locations. The unit has a payload capacity of 9 cubic yards (6.9 cubic meters) for dry material and 1800 gallons (6,800 liters) for liquids. Constructed utilizing all new equipment, the T-3000 is designed and manufactured to withstand the abuses associated with 100% off road use.

VACUUM MODEL SPECIFICATIONS

Vacuum Pump:

The UltraVac T-3000 utilizes a positive displacement, roots type vacuum pump with high temperature viton seals and is capable of achieving 3000 CFM (85 m³/min.) at atmosphere and 2650 CFM (75 m³/min.) at 15" Hg (0.52 kg/cm²) at standard temperature and pressure.

Drive:

The UltraVac T-3000 utilizes a 150 horsepower separate diesel engine with a V-Belt drive to power the vacuum pump. The engine is equipped with an integral clutch allowing it to be started under a "no load" condition. The clutch is automatically engaged from the operators console after the engine is started and automatically disengages when the T-3000 is shutdown for any reason.

Collector Body:

The UltraVac T-3000 collector body is a square configuration and is equipped with a high level shutdown for dry and wet material. For ease of cleaning, all air flow paths are accessed through the same plenum doors that access the filtration system. The collector body is capable of achieving a 50 degree dump angle via a hydraulic lift cylinder. All collected material discharges through the tailgate. The standard collector body is constructed of 3/16" carbon steel with hinged access doors. Optional materials of construction include Coreten and stainless steel.

Tailgate:

The tailgate is hydraulic over mechanical with separate cylinders for opening/closing and locking/unlocking. The seal between the tailgate and collector body is an oil resistant, replaceable, heavy duty D-ring style.

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Hydraulics:

Hydraulic power for opening/closing/sealing the tailgate and tipping the collector body is provided by a hydraulic pump mounted integrally on the T-3000 engine. No connections to the truck engine are required.

Filtration System:

The filtration system is a parallel design utilizing separate baghouses and air flow paths for wet and dry applications. The baghouses are located on both sides of the main collector compartment and dump integrally with the body. All baghouses have clean out doors and require no tools to open. All filter bags utilize a snaplock retaining system with a venturied cage for maximum cleaning efficiency. No tools are required to access or replace the filter bags or cages. Bag cleaning is achieved via continuous reverse pulse jets of compressed air while vacuuming. An engine mounted air compressor provides a suitable supply of compressed air at a pressure of up to 100 psi. The compressed air system is equipped with a surge tank and water trap to prevent moisture in the air pulse. Sequencing of the reverse pulse jets of compressed air is controlled by adjustable solid state timer boards. All solid state timer boards and solenoids are mounted in NEMA 4 enclosures located in the nose compartment of the collector body to prevent damage.

Instrumentation:

The instrumentation to safely operate and monitor the UltraVac T-3000 includes a filter bag differential pressure gauge, vacuum gauge, hydraulic pressure gauge, engine tachometer with elapsed time meter, air pressure gauge, oil pressure gauge, water temperature gauge, amp meter and fuel gauge. All instrumentation is mounted in a NEMA 4 control panel with a replaceable, clear plexiglass front for ease of monitoring. The control panel is located on the driver's side and is mounted above the frame of the chassis for easy access.

Wet-Dry Mode Operation:

The unit is capable of wet or dry mode operation utilizing separate baghouses and filtration systems. At no time are the filters by-passed thus assuring protection for the vacuum pump. Switch-over is done at the control panel eliminating the need to enter or climb on top of the collector body.

Painting:

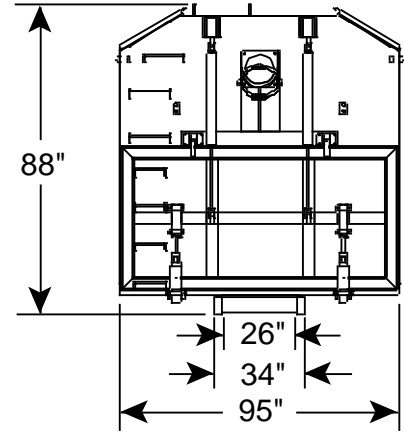
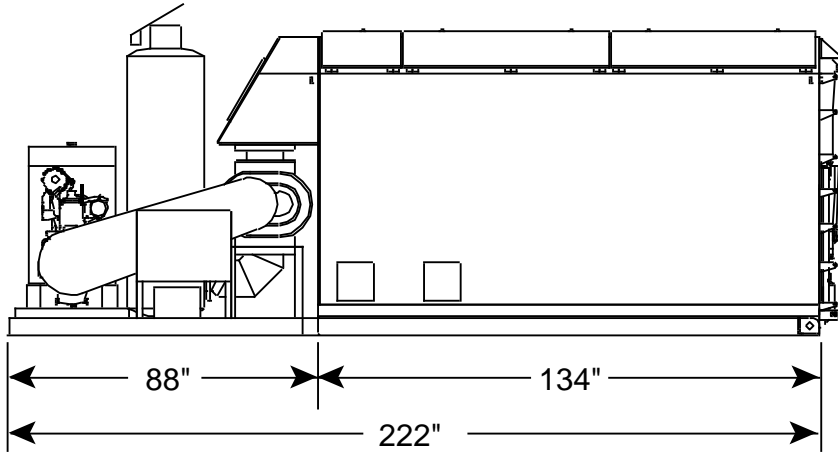
The vacuum module is painted using one coat of primer and two coats of an acrylic enamel finish. The standard color is white. Other colors are available to suit customer requirements.

Installation:

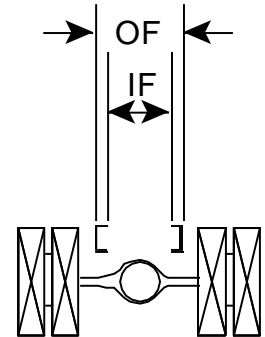
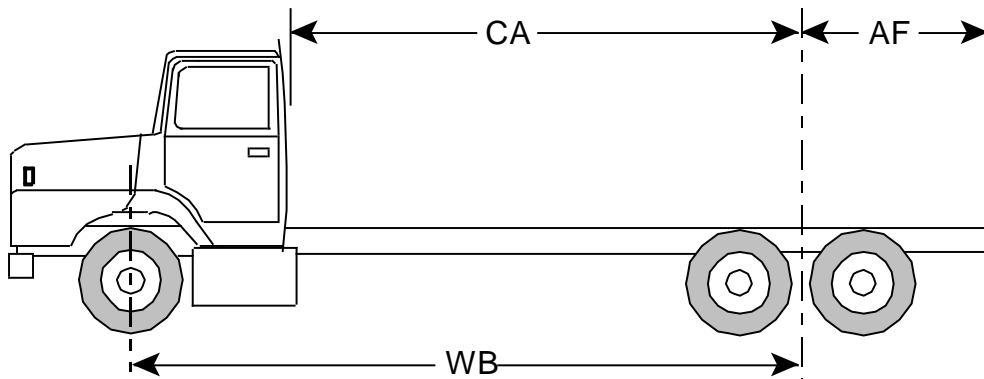
The vacuum loader will be mounted on a suitable truck chassis per the enclosed specifications. All materials are included to assure legal use both on and off highway.



Model T-3000SE

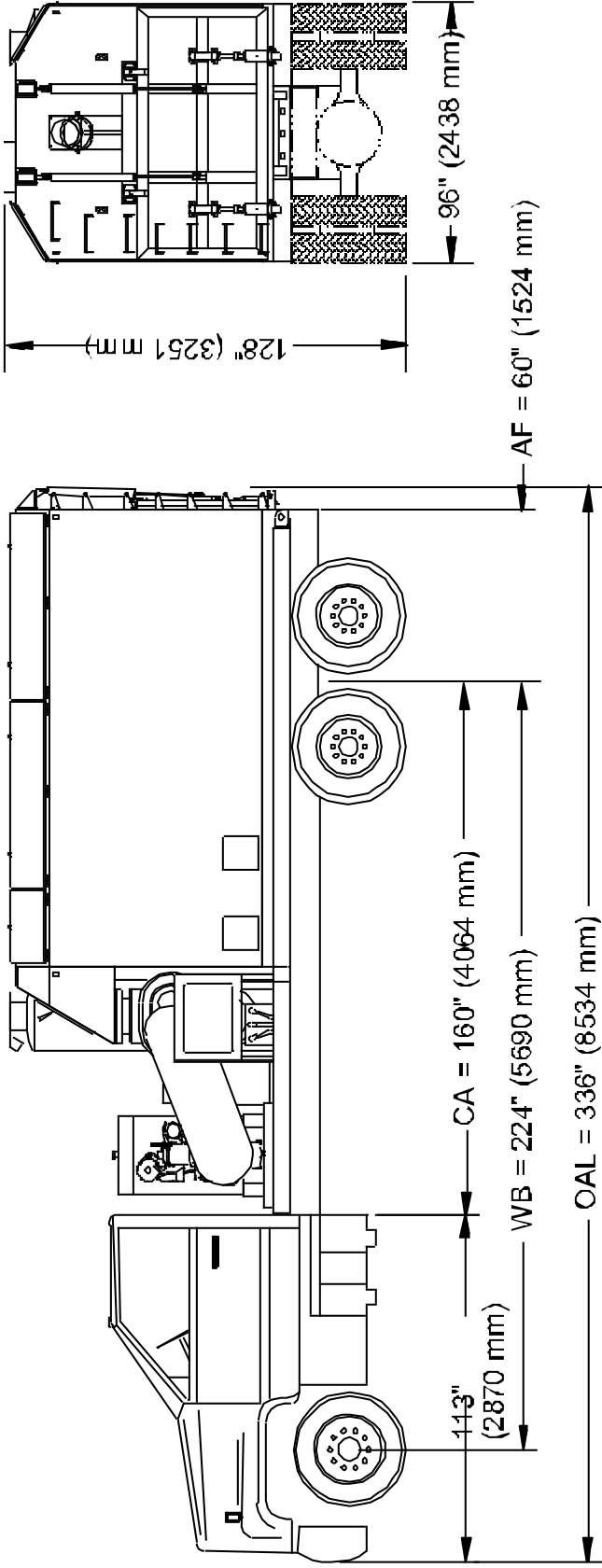


TRUCK CHASSIS SPECIFICATIONS 9 CUBIC YARD COLLECTOR BODY



MODEL	CARRYING CAPACITY IN POUNDS (KG)	SUSPENSION IN POUNDS (KG)		ENGINE IN HP (KW)	WB* IN IN. (MM)	CA* IN IN. (MM)	AF IN IN. (MM)	IF IN IN. (MM)	OF IN IN. (MM)	
		FRONT	REAR							
T-3000SE	MIN.	30,000 (13,608)	14,000 (6,350)	30,000 (13,608)	210 (157)	230 (5842)	166 (4216)	62 (1575)	26.75 (679)	34.75 (883)
	MAX.	48,000 (21,773)	18,000 (8,165)	44,000 (19,958)	350 (261)	238 (6045)	180 (4572)	48 (1219)	25.25 (641)	33.25 (845)

***NOTE:** WB dimension is **approximate** and will vary depending on the model of truck selected.
CA dimension must be **clear and unobstructed** for the full length and width above the frame



FILTRATION SYSTEM:

DRY: (64) 4.6" X 54" 16 OZ. DACRON FILTER BAGS
 AIR TO CLOTH RATIO: 9.8 TO 1
 WET: (16) 4.6" X 54" 16 OZ. MONOFILAMENT FILTER BAGS
 AIR TO CLOTH RATIO: 39 TO 1

CLEANING METHOD:

CONTINUOUS REVERSE PULSE AIR WHILE VACUUMING

RETAINING METHOD:

SNAPLOCK STYLE

VACUUM PUMP:

POSITIVE DISPLACEMENT
 3125 CFM @ NO LOAD
 2650 CFM @ FULL LOAD
 VACUUM: 15" HG
 DRIVE METHOD: V-BELT

CHASSIS:

LENGTH: 306.25" (7776 mm)
 WIDTH: 96" (2434 mm)
 HEIGHT: 124.25" (3152 mm)

POWER SOURCE:

SEPARATE DIESEL ENGINE
 HORSEPOWER: 155 CONTINUOUS
 RPM: 2150

COLLECTOR BODY:

SIZE: 9 CUBIC YARDS
 CONSTRUCTION: REINFORCED CARBON STEEL
 BAGHOUSE LOCATION: LEFT AND RIGHT SIDES
 LOADING METHOD: THROUGH REAR 8" PORT, CENTER LOADED
 UNLOADING METHOD: THROUGH REAR OF COLLECTOR BODY VIA HYDRAULIC TAILGATE WHEN BODY IS RAISED TO 50° DUMP ANGLE. BAGHOUSES

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TITLE: MODEL T-3000SE WITH SEPARATE ENGINE DRIVE AND 9 CU. YD. STORAGE

DATE: 04AUG86 SCALE: NONE DRAWN: CGT DRWG. NO. 604080-1