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MAL1350 Aluminum Service Vehicle

The MAL1350 aluminum service module is designed for the Ford F550 Super Duty but will work with Chevy or Isuzu chassis models with a minimum 19,000 lbs. GVWR or larger. The 950 gallon waste / 400 gallon fresh tank works perfect for standard portable restroom routes. Pump systems are available in PTO driven Masport HXL4V vacuum pumps. See the specification section for available options and other chassis choices, complies with DOT safety requirements.



Dimensions

Vehicle Length	287"
Length (module)	172"
Width (overall) excl. mirror bracket	99"
Overall height (mounted)	106"
Module height (not mounted)	64"
Module weight	1697 lbs.

Cab/Chassis Specifications

Ford F550 Super Duty

- 6.0 engine, 325 HP, 560 ft.-lbs. torque
- Ford 5 speed automatic transmission
- Single reduction differential, 4.88:1 ratio
- 19,000 GVW, 7,000 front axle, 13,600 rear
- 200" wheelbase; 120" cab to axle
- LT225/70R19.5F all-terrain tread
- Towing capacity: 3,000 lbs. – 3/4 load, tongue weight: 300 lbs.

Cabinet Design and Materials

Design:

1/8" Aluminum side panels with one aluminum locking cabinet on each side. Cabinet and side panels are weld-together construction.

Finish:

Bright Aluminum

Bumper, Hitch Assembly & Unit Hauler

- Locking pin-to-hold unit hauler in position
- Recess-mounted tail, back-up and marker lights
- Female half of six-pin connector flush mounted
- Trailer and safety chain hookup
- Grade 8 mounting bolts
- Fold-up design holds two units
- License plate holder

Weight and Balance

Front	Axle Weights	Rear	Total
4,561 lbs.	Empty	4,602 lbs.	9,163 lbs.
5,729 lbs.	Full fresh	6,354 lbs.	12,082 lbs.
5,236 lbs.	Full waste	12,927 lbs.	18,163 lbs.
5,470 lbs.	Full truck*	13,277 lbs.	18,747 lbs.

*Full truck = Full waste, 20% fresh, driver
19,000 lbs.= Ford F550 Factory published GVW rating

Tank Design and Material

Rear Waste Compartment: **Volume** - 950 gallons, Shell – 1/4" ASTM 5454, Heads - two 1/4" X 54" diameter, one 1/4" cross baffles; and two wing baffles. One 19" quick opening manway in center of waste.

Front Fresh Compartment: **Volume** - 400 gallons, Shell - 1/4", with one 1/4" X 54" head, two wing baffles.

Mounts: Tank rests on chassis frame on captive 2" x 3" plastic lumber strips. Front consists of spring loaded mounts with 5/8" Grade 8 bolts and lock nuts. Center mount H-style mounting bracket. Rear mounts consist of 3/8" and 1/4" brackets. Brackets are bolted with 5/8" diameter Grade 8 plated bolts, to frame and to tank with 5/8" bolts.

Dump Locations: **Waste** - 3" full port dump located just behind rear wheel on driver's side.
Fresh - 2" dump located just behind cab on left side.

Fitting Sizes:	Fresh outlet	2" MPT	Fresh inlet	4" FPT
	Waste outlet	3" MPT	Waste inlet	3" MPT
	Vacuum line	2" hose	Fresh indicator	1" sight tube
	Waste indicator	5" sight glass		

Tank Finish: Bright finish aluminum

Vacuum System Specifications

Standard Pump: Masport HXL4V pump with pressure dump
Standard Pump Drive: PTO with torque overload protection.

Vacuum System Features:

- Service hose 30' (others optional)
- Electronic fast idle system (chassis option)
- Pump oiling system
- Primary overflow valve (in-tank design)
- Secondary check valve (in-line design)
- Moisture trap
- Exhaust muffler/Oil catch
- Vacuum gauge (cabinet mounted)

The service module features a PTO driven vacuum system for pumping waste and a gravity flow chemical system for recharging the restroom with fresh chemical.

Performance on 950 compartment:

1400 RPM	Rating (CFM)	Vacuum levels	
		12" HG	18" HG
HXL4	160	31 seconds	68 seconds

The above times are for empty tank performance.

Standard Module Features

- 36" x 30" x 24" cabinets both sides
- 1/8" aluminum catwalks and cabinets
- Round sight glasses waste, sight tube fresh
- Rubber dock guard on rear of catwalks
- 19" quick opening manway in waste
- Ladder to gain access to top manway
- DOT safety equipment package (flag and reflector, first aid kit, fire extinguisher)

Optional Module Features

- Vacuum hose length options
- Pressure wash systems
- Dump hose length options
- Dual side service
- Three compartment tanks (requires extra lead time)
- Chevrolet or Isuzu chassis options (requires extra lead time)