



MD 950 Portable Restroom Service Vehicle

The MD950 service module is designed for the Ford F550 Super Duty with 17,950 lbs. GVW rating. The 650- gallon waste / 300-gallon works great for typical portable restroom route. Standard features include: 3" waste outlet valve, left side service, 2" fresh water outlet valve, sight glasses, hose bracket, strap tie-down brackets, bumper hitch, rear mud-flaps, wand holster, unique baffle design, keyed locking cabinets. The design accommodates the accumulation of waste and the reduction of fresh water/deodorizer with a weight and balance that complies with DOT safety requirements.



Dimensions

Length (module)	116"
Length (overall Ford F550)	240" (hauler up)
Width (overall) excl. mirror bracket	97"
Overall height (mounted)	96"
Module height (not mounted)	66"
Module weight	2,780 lbs.

Cab/Chassis Specifications

- Ford F Super Duty 550
- 6.0 liter DI diesel engine (325 HP, torque 560 ft- lbs.)
- 5 speed auto transmission
- Single reduction differential, 4.88:1 ratio
- Power steering
- 141" wheelbase; 60" cab to axle
- 17,950 GVW, 7,000 front axle, 13,660 rear
- LT225/70R19.5F all-terrain tread
- Frame width 34"
- Towing capacity: 3,000 lbs., tongue weight: 300 lbs.
- Electronic fast idle control

Catwalk Design and Materials

Design:
Side panels consist of 14 gauge galvaneal steel with 14 gauge water resistant locking cabinets 30" x 24" x 18" both sides. Cabinets and side panels and floor panels are bolt-together construction.

Finish:
Tank/Catwalks: Diamond Vogel Epoxy primer
: Polyester Powder topcoat

Bumper, Hitch Assembly & Unit Hauler

- 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
- Bright zinc finish
- License plate holder

Weight and Balance

Front	Axle Weights	Rear	Total
4,050 lbs.	Empty	5,605 lbs.	9,605 lbs.
3,489 lbs.	Full fresh	8,716 lbs.	12,205 lbs.
4,797 lbs.	Full waste	10,708 lbs.	15,505 lbs.
4,757 lbs.	Full truck*	11,685 lbs.	16,442 lbs.

*Full truck = Full waste, 20% fresh, 2 units, driver
17,950 lbs.=Factory published GVW rating

Tank Design and Material

Front Waste Compartment: **Volume** – 650 gallons, **Compartment** – 55" long x 3/16" thick, heads - 54" diameter; two sets of 16" x 11 gauge cross baffles; two 11 gauge wing baffles running full length of shell; 2-5" sight glasses indicate tank volume level.

Rear Fresh Compartment: **Volume** – 300 gallons, **Compartment** – 25" long x 3/16" thick with one 7 gauge head, 3-2" sight glasses indicate tank volume level. Wing baffle runs full length of shell.

Mounts: Tank rests on chassis frame on captive (4) 1" x 3" oak strips 30" long. Front mounts consist of 3/4" hardened threaded rod and lock nuts used with 1/2" bar mount on right and left. Rear mounts consist of 3/8" and 1/4" brackets. Brackets are bolted to the truck frame with 1" and 1/2" diameter Grade 8 plated bolts, nuts and lock washers.

Dump Location: **Waste** – 3" dump located just ahead of rear wheel on driver's side.
Fresh – 2" dump located just behind rear wheel on driver's side.

Fitting Sizes:

Fresh outlet	2" MPT	Fresh inlet	3" FPT
Waste outlet	3" MPT	Waste inlet	2" FPT
Vacuum line	1-1/4" Hose & fittings	Waste indicator	2" FPT

Vacuum System Specifications

Standard Pump: Conde 6SS under hood.
Standard Pump Drive: V-belt from the engine to electromagnetic clutch on pump.

The service module features a belt-driven vacuum system for pumping waste and a gravity flow chemical system for recharging the restroom with fresh chemical. Chemical/fresh delivery system with boom and latch assembly is optional.

Vacuum System Features:

- Service hose 25' (others optional)
- Electronic fast idle system (chassis option)
- Pump oiling system
- Primary overflow valve (in-tank design)
- Secondary check valve (in-line design)
- Exhaust muffler
- Vacuum gauge

Performance on 650 Tank:

1400 RPM	Rating (CFM)	PRESSURE-RELIEF VALVE SETTING	
		12" HG	18" HG
Conde 6SS	70	39 seconds	76 seconds

The above times are for empty tank performance.

Standard Module Features

- 30" x 24" x 18" cabinets both sides
- Galvaneal, powder coated catwalks and cabinets
- Rail cap protection on catwalks
- Cabinet shelves
- Coated fresh compartment with manway
- Round sight glasses, 5" in waste 2" in fresh
- Rubber dock guard on rear of catwalks
- Bed liner coating on inside of catwalks and on tank in work zone
- DOT safety equipment package (flag and reflector, eye wash kit, first aid kit, fire extinguisher)

Optional Module Features

- Waste manhole
- Vacuum hose length options
- Chemical delivery system
- Pressure wash systems
- Dump hose length options
- Wet basket
- Boom and latch package
- 3 compartment tanks
- Masport Scent odor eliminator
- Metered toilet deodorizer dispensing system