



MD 1600 Portable Restroom Service Vehicle

The MD1600 tank is designed for the International 4300 and Ford F650 chassis at 25,999 lbs. GVW or larger. The 1,100-waste / 500-fresh tank can handle the largest of routes. Standard features include: 4" 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, complies with DOT safety requirements.



Dimensions

Length (module)	150"
Width (overall) excl. mirror bracket	98"
Overall height (mounted)	107"
Module height (not mounted)	64"
Module weight	4136

Cab/Chassis Specifications

Navistar 4300 chassis	Ford F650 chassis
DT 466 engine, (210 HP, 520 ft.-lbs. torque)	Cummins ISB (215 - 230 HP 520 ft.-lbs. torque).
2100 RDS series automatic Single reduction differential	2500 RDS Series automatic same
176" wheelbase; 108" cab to axle	182" wheelbase; 108" cab to axle
25,999 GVW	same
10,000 front /19,000 rear	same
<i>Towing capacity:</i> 5,000 lbs. – 3/4 load,	same
Electronic fast idle control.	same

Cabinet Design and Materials

Design:

14 gauge galvaneal side panels with one 14 gauge locking cabinet on each side. Cabinet and side panels are bolt-together construction.

Finish: Diamond Vogel Powercoat

Epoxyp primer coat, Polyester Power top Coat

Bumper, Hitch Assembly & Unit Hauler

- Self-supporting
- 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
- Zinc finish
- Fold up design holds two units
- License plate holder

Weight and Balance

Front	Axle Weights	Rear	Total
6,278 lbs.	Empty	7,156 lbs.	13,934 lbs.
5,826 lbs.	Full fresh	12,283 lbs.	18,109 lbs.
9,231 lbs.	Full waste	13,653 lbs.	22,884 lbs.
8,919 lbs.	Full truck*	15,345 lbs.	24,264 lbs.

*Full truck = Full waste, 20% fresh, driver

25,999 lbs. = International 4300 Factory published GVW rating; 25,999 lbs. = Ford F650 Factory published CVW rating

Tank Design and Material

Front Waste Compartment:	Volume - 1,100 gallons, Shell - 1/4", Heads -Two 1/4 (60" diameter with 1-1/2" lip), two sets of 16", 12 gauge cross baffles; and two 12 gauge wing baffles.			
Rear Fresh Compartment:	Volume - 500 gallons, Shell - 1/4", with one 1/4 head. One 12 gauge vertical baffle and two 12 gauge wing baffles.			
Mounts:	Tank rests on chassis frame on captive 1" x 3" x 18" oak strips. Front & center consists of 3/4" Grade 8 bolts and lock nuts used with mounting brackets. Rear mounts consist of 3/8" and 1/4" brackets Brackets are bolted with 1-1/4" and 5/8" diameter Grade 8 plated bolts, to frame and to tank with 1/4" bolts.			
Dump Locations:	Waste - 4" full port dump located just ahead of rear wheel on driver's side. Fresh - 2" dump located just behind left rear dual.			
Fitting Sizes:	Fresh outlet	2" MPT	Fresh inlet	3" FPT
	Waste outlet	4" MPT	Waste inlet	3" MPT
	Vacuum line	1-1/2" hose	Indicator	2" sight glass
	Waste indicator	5" sight glass	Fresh indicator	2" sight glass
Tank Finish:	Polyester powder coat paint			

Vacuum System Specifications

Standard Pump: Conde SDS12

Optional Pump: Masport Model HXL4

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)
- Auxiliary 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 850 Tank:

1200 RPM	Rating (CFM)	PRESSURE-RELIEF VALVE SETTING	
		12" HG	18" HG
Conde SDS 12	180	28 seconds	54 seconds
Masport HXL4	160	30 seconds	59 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
- Coated fresh compartment
- Cabinet shelves
- Round sight glasses
- Rubber dock guard on rear of catwalks
- Hose stand-off bar
- Bedliner coating in catwalks and on tank in work zone
- DOT safety equipment package (flag and reflector, first aid kit, fire extinguisher)

Optional Module Features

- Waste manway
- Vacuum hose length options
- Chemical delivery system
- Pressure wash systems
- Dump hose length options
- Wet basket
- Boom and latch package
- Metered toilet deodorizer dispensing system
- Masport scent exhaust odor eliminator