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MD 400 Portable Restroom Service Module

The MD400 is ideal for **small routes, quick services, quality control and locations** where a small truck is the only way to service toilets. Designed as a self-contained tank for long box pickup trucks, the 270-gallon waste/130-gallon fresh tank uses a "Bolt-in / system that allows quick removal. 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.



Module Features

- Standard Features:** 3" waste outlet valve, rear service; 2" fresh outlet valve, rear; waste and fresh sight glasses; 1/2 inch metal hose standoff to protect paint, rack for service hose; unique baffle design; vacuum gauge mounted on vacuum system mounting platform.
- Optional Features:** Pressure wash systems; longer vacuum hose lengths; coated fresh compartment with manway; dump hose 5', or 10' lengths.

Service Tank Mounting

- Tank rails rest on pickup box floor full length. Front mounts consist of 1/4" x 3" x 4" angle mounting bracket bolted through the box to the frame with 3/4" hardened threaded rod, and 1/2" thick mounting brackets, hook style bracket attached to frame rail.
- Rear mounting is accomplished by a 1/4" x 3" x 4" angle that contacts the rear of the box full width. Two 1/2" thick x 3" long brackets on rear mount coupled to hardened 5/16" chain running under bumper mounting brackets secure the tank to the pickup.
- Optional flat bed mounting may be accomplished with optional mounting hardware and rear mount on vehicles where safe weight and balance criteria are met.

Dimensions

Length (module)	96"	Tank diameter	42"
Waste/fresh split	270/130	Shell thickness	10 gauge
Width (excluding front and rear mount)	42"	Head thickness	10 gauge
Width (including front and rear mount)	63"	Weight (Module including hardware)	1,140 lbs.
Height	51"	Weight (tank full*)	3,970 lbs.

* full tank = full waste, 20% fresh

Tank Design and Material

Rear Waste Compartment: **Volume** – 270 gallons; compartment length 45"; baffles - one set of 16" by 12 gauge cross baffles, and one set of 12 gauge wing baffles; two 2" site glasses.

Rear Fresh Compartment: **Volume** – 130 gallons, Shell - 25" compartment length, two - 2" site glasses.

Dump Location: **Waste** – 3" at center rear of module
Fresh – 2" at left rear of module

Tank Finish: Epoxy primer followed by Polyester powder top coat

Fitting Sizes:

Fresh outlet	2" MPT	Fresh inlet	3" MPT
Waste outlet	3" MPT	Waste inlet	2" MPT
Vacuum line	1 1/4" MPT		
Waste indicator	2" sight glasses	Fresh indicator	2" sight glasses

Vacuum System Specifications

Standard Pump: Model Conde 6 with Honda 5.5 hp engine

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.

Vacuum System Features:

- Service hose 25' (other lengths are optional)
- Pump oiling system
- Primary overflow valve (in-tank design)
- Secondary check valve (in-line design)
- Exhaust muffler
- Vacuum gauge
- Optional garden hose system

Performance on 270 Waste Tank:

1400 RPM	Rating (CFM)	PRESSURE-RELIEF VALVE SETTING	
		12" HG	18" HG
Conde 6	42	31 seconds	57 seconds

The above times are for empty tank performance.

Vehicle Requirements

Chassis size	3/4 or 1 ton pickup (minimum 4,000 lbs. payload)
GVWR rating	8,500 pounds minimum
Payload capacity	4,000 pounds
Front axle rating	4,000 pounds minimum
Rear axle rating	6,000 pounds minimum
Box size	Full size (8 foot)